

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B5_1.4MHz_ERP

Band: 5 / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	22.96	2.53	23.34	<=38.45	Pass
			2	22.86	2.53	23.24	<=38.45	Pass
			5	22.61	2.53	22.99	<=38.45	Pass
		3	0	22.67	2.53	23.05	<=38.45	Pass
			2	22.73	2.53	23.11	<=38.45	Pass
			3	22.62	2.53	23.00	<=38.45	Pass
		6	0	21.77	2.53	22.15	<=38.45	Pass
	836.5	1	0	22.88	2.53	23.26	<=38.45	Pass
			2	22.93	2.53	23.31	<=38.45	Pass
			5	22.88	2.53	23.26	<=38.45	Pass
		3	0	22.82	2.53	23.20	<=38.45	Pass
			2	22.94	2.53	23.32	<=38.45	Pass
			3	22.81	2.53	23.19	<=38.45	Pass
	6	0	22.02	2.53	22.40	<=38.45	Pass	
	848.3	1	0	23.00	2.53	23.38	<=38.45	Pass
			2	23.10	2.53	23.48	<=38.45	Pass
			5	22.90	2.53	23.28	<=38.45	Pass
		3	0	22.82	2.53	23.20	<=38.45	Pass
			2	22.87	2.53	23.25	<=38.45	Pass
			3	22.80	2.53	23.18	<=38.45	Pass
		6	0	21.93	2.53	22.31	<=38.45	Pass
16QAM	824.7	1	0	22.59	2.53	22.97	<=38.45	Pass
			2	22.47	2.53	22.85	<=38.45	Pass
			5	22.54	2.53	22.92	<=38.45	Pass
		3	0	22.25	2.53	22.63	<=38.45	Pass
			2	22.10	2.53	22.48	<=38.45	Pass
			3	21.85	2.53	22.23	<=38.45	Pass
		6	0	21.11	2.53	21.49	<=38.45	Pass
	836.5	1	0	22.16	2.53	22.54	<=38.45	Pass
			2	22.21	2.53	22.59	<=38.45	Pass
			5	22.04	2.53	22.42	<=38.45	Pass
		3	0	22.10	2.53	22.48	<=38.45	Pass
			2	22.13	2.53	22.51	<=38.45	Pass
			3	22.06	2.53	22.44	<=38.45	Pass
	6	0	20.78	2.53	21.16	<=38.45	Pass	
	848.3	1	0	22.11	2.53	22.49	<=38.45	Pass
			2	22.25	2.53	22.63	<=38.45	Pass
			5	21.91	2.53	22.29	<=38.45	Pass
		3	0	22.25	2.53	22.63	<=38.45	Pass
			2	22.21	2.53	22.59	<=38.45	Pass
			3	22.06	2.53	22.44	<=38.45	Pass
		6	0	21.07	2.53	21.45	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B5_3MHz_ERP

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	ERP (dBm)	Verdict

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit		
QPSK	825.5	1	0	22.69	2.53	23.07	<=38.45	Pass	
			7	23.00	2.53	23.38	<=38.45	Pass	
			14	22.73	2.53	23.11	<=38.45	Pass	
		8	0	21.78	2.53	22.16	<=38.45	Pass	
			4	21.80	2.53	22.18	<=38.45	Pass	
			7	21.78	2.53	22.16	<=38.45	Pass	
		15	0	21.84	2.53	22.22	<=38.45	Pass	
		836.5	1	0	22.83	2.53	23.21	<=38.45	Pass
				7	23.03	2.53	23.41	<=38.45	Pass
	14			22.89	2.53	23.27	<=38.45	Pass	
	8		0	22.04	2.53	22.42	<=38.45	Pass	
			4	21.97	2.53	22.35	<=38.45	Pass	
			7	22.05	2.53	22.43	<=38.45	Pass	
	15		0	22.09	2.53	22.47	<=38.45	Pass	
	847.5		1	0	22.97	2.53	23.35	<=38.45	Pass
				7	22.86	2.53	23.24	<=38.45	Pass
		14		22.84	2.53	23.22	<=38.45	Pass	
		8	0	21.97	2.53	22.35	<=38.45	Pass	
			4	21.89	2.53	22.27	<=38.45	Pass	
			7	22.00	2.53	22.38	<=38.45	Pass	
		15	0	22.13	2.53	22.51	<=38.45	Pass	
16QAM		825.5	1	0	22.40	2.53	22.78	<=38.45	Pass
				7	22.30	2.53	22.68	<=38.45	Pass
	14			22.21	2.53	22.59	<=38.45	Pass	
	8		0	20.83	2.53	21.21	<=38.45	Pass	
			4	20.96	2.53	21.34	<=38.45	Pass	
			7	20.95	2.53	21.33	<=38.45	Pass	
	15		0	20.78	2.53	21.16	<=38.45	Pass	
	836.5		1	0	22.41	2.53	22.79	<=38.45	Pass
				7	22.65	2.53	23.03	<=38.45	Pass
		14		22.70	2.53	23.08	<=38.45	Pass	
		8	0	21.28	2.53	21.66	<=38.45	Pass	
			4	21.25	2.53	21.63	<=38.45	Pass	
			7	21.21	2.53	21.59	<=38.45	Pass	
		15	0	20.97	2.53	21.35	<=38.45	Pass	
		847.5	1	0	22.42	2.53	22.80	<=38.45	Pass
				7	22.43	2.53	22.81	<=38.45	Pass
	14			22.12	2.53	22.50	<=38.45	Pass	
	8		0	21.24	2.53	21.62	<=38.45	Pass	
			4	21.23	2.53	21.61	<=38.45	Pass	
			7	21.30	2.53	21.68	<=38.45	Pass	
	15		0	20.99	2.53	21.37	<=38.45	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.1.3 B5_5MHz_ERP

Band: 5 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	22.66	2.53	23.04	<=38.45	Pass
			13	22.71	2.53	23.09	<=38.45	Pass
			24	22.73	2.53	23.11	<=38.45	Pass
		12	0	21.70	2.53	22.08	<=38.45	Pass
			6	21.74	2.53	22.12	<=38.45	Pass
			13	21.86	2.53	22.24	<=38.45	Pass
		25	0	21.72	2.53	22.10	<=38.45	Pass
	836.5	1	0	22.50	2.53	22.88	<=38.45	Pass

			13	22.75	2.53	23.13	<=38.45	Pass		
			24	22.55	2.53	22.93	<=38.45	Pass		
			0	22.00	2.53	22.38	<=38.45	Pass		
		12	6	22.06	2.53	22.44	<=38.45	Pass		
			13	21.96	2.53	22.34	<=38.45	Pass		
			25	0	21.94	2.53	22.32	<=38.45	Pass	
	846.5	1	0	23.03	2.53	23.41	<=38.45	Pass		
			13	23.01	2.53	23.39	<=38.45	Pass		
			24	22.68	2.53	23.06	<=38.45	Pass		
		12	0	22.18	2.53	22.56	<=38.45	Pass		
			6	22.22	2.53	22.60	<=38.45	Pass		
			13	22.01	2.53	22.39	<=38.45	Pass		
		25	0	22.01	2.53	22.39	<=38.45	Pass		
		16QAM	826.5	1	0	21.33	2.53	21.71	<=38.45	Pass
					13	21.16	2.53	21.54	<=38.45	Pass
24	21.31				2.53	21.69	<=38.45	Pass		
12	0			20.87	2.53	21.25	<=38.45	Pass		
	6			20.84	2.53	21.22	<=38.45	Pass		
	13			20.84	2.53	21.22	<=38.45	Pass		
25	0		20.94	2.53	21.32	<=38.45	Pass			
836.5	1		0	22.19	2.53	22.57	<=38.45	Pass		
			13	22.74	2.53	23.12	<=38.45	Pass		
			24	22.47	2.53	22.85	<=38.45	Pass		
	12		0	20.93	2.53	21.31	<=38.45	Pass		
			6	20.90	2.53	21.28	<=38.45	Pass		
			13	20.70	2.53	21.08	<=38.45	Pass		
25	0		20.93	2.53	21.31	<=38.45	Pass			
846.5	1		0	21.89	2.53	22.27	<=38.45	Pass		
		13	21.84	2.53	22.22	<=38.45	Pass			
		24	21.86	2.53	22.24	<=38.45	Pass			
	12	0	21.15	2.53	21.53	<=38.45	Pass			
		6	21.02	2.53	21.40	<=38.45	Pass			
		13	20.85	2.53	21.23	<=38.45	Pass			
25	0	21.16	2.53	21.54	<=38.45	Pass				
Note1: ERP=Conducted Power+Antenna Gain-2.15										

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	22.72	2.53	23.10	<=38.45	Pass
			25	22.80	2.53	23.18	<=38.45	Pass
			49	22.64	2.53	23.02	<=38.45	Pass
		25	0	21.95	2.53	22.33	<=38.45	Pass
			13	21.91	2.53	22.29	<=38.45	Pass
			25	21.92	2.53	22.30	<=38.45	Pass
		50	0	21.94	2.53	22.32	<=38.45	Pass
	836.5	1	0	22.71	2.53	23.09	<=38.45	Pass
			25	23.17	2.53	23.55	<=38.45	Pass
			49	22.85	2.53	23.23	<=38.45	Pass
		25	0	21.88	2.53	22.26	<=38.45	Pass
			13	22.07	2.53	22.45	<=38.45	Pass
			25	22.05	2.53	22.43	<=38.45	Pass
		50	0	21.96	2.53	22.34	<=38.45	Pass
	844	1	0	22.96	2.53	23.34	<=38.45	Pass
			25	23.35	2.53	23.73	<=38.45	Pass
			49	23.18	2.53	23.56	<=38.45	Pass

16QAM	829	25	0	22.12	2.53	22.50	<=38.45	Pass
			13	22.16	2.53	22.54	<=38.45	Pass
			25	22.11	2.53	22.49	<=38.45	Pass
		50	0	22.13	2.53	22.51	<=38.45	Pass
			1	0	22.30	2.53	<=38.45	Pass
			25	22.39	2.53	22.77	<=38.45	Pass
	836.5	1	49	22.09	2.53	22.47	<=38.45	Pass
			0	21.11	2.53	21.49	<=38.45	Pass
			13	21.08	2.53	21.46	<=38.45	Pass
		25	25	21.00	2.53	21.38	<=38.45	Pass
			50	0	21.08	2.53	<=38.45	Pass
			1	0	22.37	2.53	<=38.45	Pass
		1	25	22.50	2.53	22.88	<=38.45	Pass
			49	22.70	2.53	23.08	<=38.45	Pass
			0	21.10	2.53	21.48	<=38.45	Pass
		25	13	21.20	2.53	21.58	<=38.45	Pass
			25	21.00	2.53	21.38	<=38.45	Pass
			50	0	20.88	2.53	<=38.45	Pass
	844	1	0	21.85	2.53	22.23	<=38.45	Pass
			25	22.07	2.53	22.45	<=38.45	Pass
			49	21.90	2.53	22.28	<=38.45	Pass
		25	0	21.40	2.53	21.78	<=38.45	Pass
			13	21.46	2.53	21.84	<=38.45	Pass
			25	21.32	2.53	21.70	<=38.45	Pass
		50	0	21.18	2.53	21.56	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B5_10MHz

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	3.55	0.036	0.0000	-2.5 to 2.5	Pass
					4	0.106	0.0001	-2.5 to 2.5	Pass
					4.4	-0.486	-0.0006	-2.5 to 2.5	Pass
				-30	4	0.490	0.0006	-2.5 to 2.5	Pass
				-20	4	-0.520	-0.0006	-2.5 to 2.5	Pass
				-10	4	-0.520	-0.0006	-2.5 to 2.5	Pass
				0	4	-1.523	-0.0018	-2.5 to 2.5	Pass
				10	4	-0.361	-0.0004	-2.5 to 2.5	Pass
				30	4	0.117	0.0001	-2.5 to 2.5	Pass
				40	4	-0.474	-0.0006	-2.5 to 2.5	Pass
	836.5	50	0	20	3.55	0.729	0.0009	-2.5 to 2.5	Pass
					4	1.184	0.0014	-2.5 to 2.5	Pass
					4.4	1.931	0.0023	-2.5 to 2.5	Pass
				-30	4	0.941	0.0011	-2.5 to 2.5	Pass
				-20	4	1.395	0.0017	-2.5 to 2.5	Pass
				-10	4	1.230	0.0015	-2.5 to 2.5	Pass
				0	4	1.811	0.0022	-2.5 to 2.5	Pass
				10	4	1.299	0.0016	-2.5 to 2.5	Pass
				30	4	1.392	0.0017	-2.5 to 2.5	Pass
				40	4	0.512	0.0006	-2.5 to 2.5	Pass

	844	50	0	50	4	0.608	0.0007	-2.5 to 2.5	Pass
				20	3.55	0.869	0.0010	-2.5 to 2.5	Pass
					4	2.231	0.0026	-2.5 to 2.5	Pass
					4.4	0.700	0.0008	-2.5 to 2.5	Pass
				-30	4	0.236	0.0003	-2.5 to 2.5	Pass
				-20	4	0.827	0.0010	-2.5 to 2.5	Pass
				-10	4	1.663	0.0020	-2.5 to 2.5	Pass
				0	4	1.742	0.0021	-2.5 to 2.5	Pass
				10	4	0.833	0.0010	-2.5 to 2.5	Pass
				30	4	1.433	0.0017	-2.5 to 2.5	Pass
				40	4	0.785	0.0009	-2.5 to 2.5	Pass
				50	4	-0.146	-0.0002	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.55	-0.535	-0.0006	-2.5 to 2.5	Pass
					4	0.609	0.0007	-2.5 to 2.5	Pass
					4.4	-0.023	0.0000	-2.5 to 2.5	Pass
				-30	4	-0.212	-0.0003	-2.5 to 2.5	Pass
				-20	4	-0.018	0.0000	-2.5 to 2.5	Pass
				-10	4	0.347	0.0004	-2.5 to 2.5	Pass
				0	4	0.078	0.0001	-2.5 to 2.5	Pass
				10	4	0.215	0.0003	-2.5 to 2.5	Pass
				30	4	-0.396	-0.0005	-2.5 to 2.5	Pass
				40	4	0.774	0.0009	-2.5 to 2.5	Pass
				50	4	0.383	0.0005	-2.5 to 2.5	Pass
	836.5	50	0	20	3.55	-0.253	-0.0003	-2.5 to 2.5	Pass
					4	1.200	0.0014	-2.5 to 2.5	Pass
					4.4	0.730	0.0009	-2.5 to 2.5	Pass
				-30	4	0.524	0.0006	-2.5 to 2.5	Pass
				-20	4	0.297	0.0004	-2.5 to 2.5	Pass
				-10	4	0.192	0.0002	-2.5 to 2.5	Pass
				0	4	-0.621	-0.0007	-2.5 to 2.5	Pass
				10	4	-0.671	-0.0008	-2.5 to 2.5	Pass
				30	4	0.277	0.0003	-2.5 to 2.5	Pass
				40	4	-0.400	-0.0005	-2.5 to 2.5	Pass
				50	4	-0.183	-0.0002	-2.5 to 2.5	Pass
	844	50	0	20	3.55	0.700	0.0008	-2.5 to 2.5	Pass
					4	-0.437	-0.0005	-2.5 to 2.5	Pass
					4.4	-0.494	-0.0006	-2.5 to 2.5	Pass
				-30	4	0.709	0.0008	-2.5 to 2.5	Pass
				-20	4	0.095	0.0001	-2.5 to 2.5	Pass
				-10	4	-0.041	0.0000	-2.5 to 2.5	Pass
				0	4	0.011	0.0000	-2.5 to 2.5	Pass
				10	4	0.139	0.0002	-2.5 to 2.5	Pass
				30	4	0.443	0.0005	-2.5 to 2.5	Pass
				40	4	-0.357	-0.0004	-2.5 to 2.5	Pass
				50	4	-0.359	-0.0004	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

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	1.117	/	Pass
		836.5	6	0	1.116	/	Pass

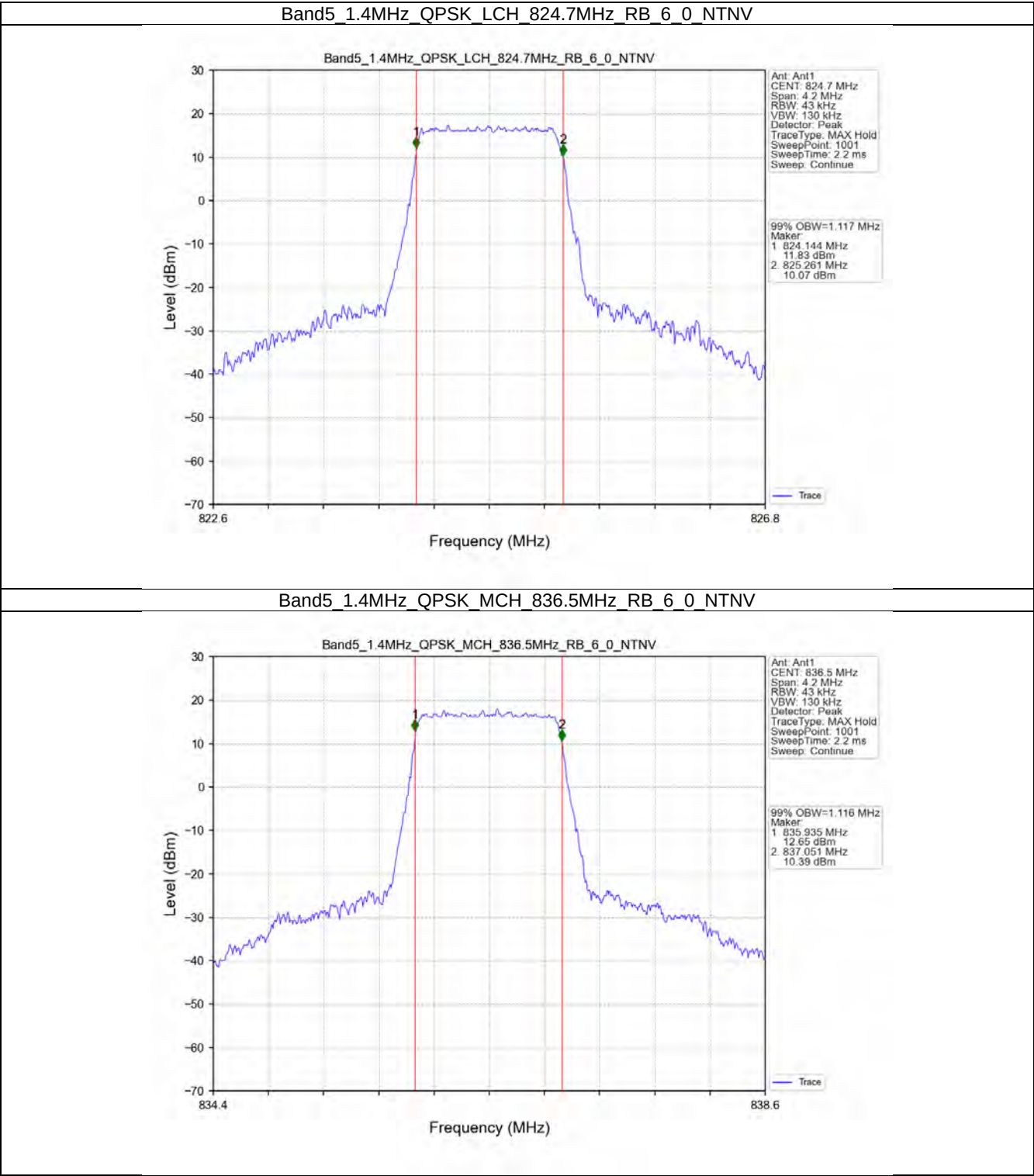
	16QAM	848.3	6	0	1.111	/	Pass
		824.7	6	0	1.109	/	Pass
		836.5	6	0	1.113	/	Pass
		848.3	6	0	1.115	/	Pass
3	QPSK	825.5	15	0	2.745	/	Pass
		836.5	15	0	2.741	/	Pass
		847.5	15	0	2.735	/	Pass
	16QAM	825.5	15	0	2.736	/	Pass
		836.5	15	0	2.736	/	Pass
		847.5	15	0	2.737	/	Pass
5	QPSK	826.5	25	0	4.546	/	Pass
		836.5	25	0	4.536	/	Pass
		846.5	25	0	4.517	/	Pass
	16QAM	826.5	25	0	4.538	/	Pass
		836.5	25	0	4.547	/	Pass
		846.5	25	0	4.558	/	Pass
10	QPSK	829	50	0	9.048	/	Pass
		836.5	50	0	9.023	/	Pass
		844	50	0	9.006	/	Pass
	16QAM	829	50	0	9.057	/	Pass
		836.5	50	0	9.014	/	Pass
		844	50	0	9.020	/	Pass

3.1.2 Band5_XDB

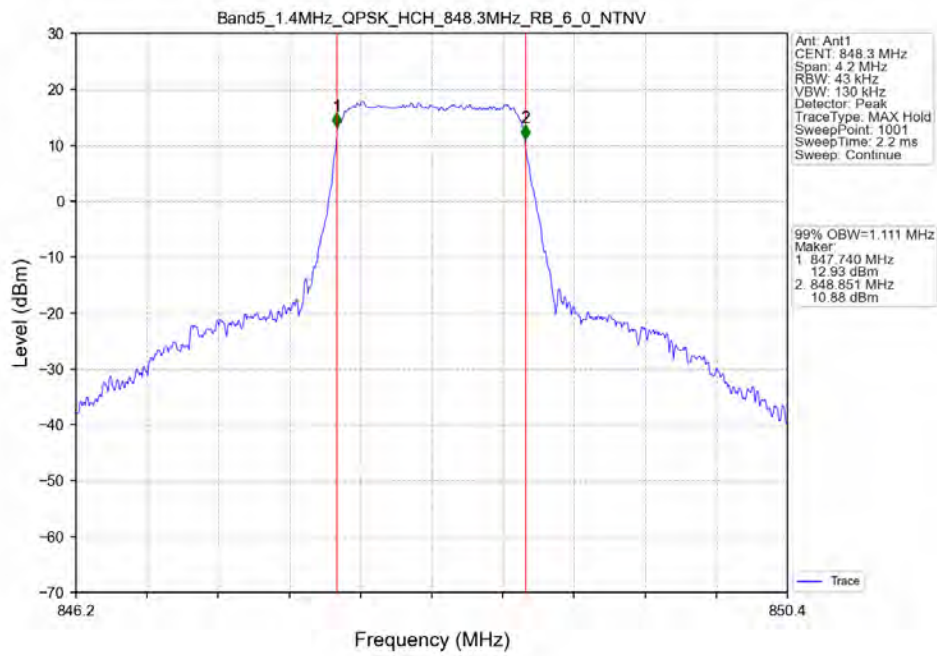
Band: 5 / NTNv							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.332	/	Pass
		836.5	6	0	1.312	/	Pass
		848.3	6	0	1.324	/	Pass
	16QAM	824.7	6	0	1.309	/	Pass
		836.5	6	0	1.317	/	Pass
		848.3	6	0	1.305	/	Pass
3	QPSK	825.5	15	0	3.058	/	Pass
		836.5	15	0	3.046	/	Pass
		847.5	15	0	3.036	/	Pass
	16QAM	825.5	15	0	3.050	/	Pass
		836.5	15	0	3.020	/	Pass
		847.5	15	0	3.037	/	Pass
5	QPSK	826.5	25	0	5.067	/	Pass
		836.5	25	0	5.066	/	Pass
		846.5	25	0	5.072	/	Pass
	16QAM	826.5	25	0	5.042	/	Pass
		836.5	25	0	5.054	/	Pass
		846.5	25	0	5.098	/	Pass
10	QPSK	829	50	0	10.060	/	Pass
		836.5	50	0	9.963	/	Pass
		844	50	0	10.053	/	Pass
	16QAM	829	50	0	10.018	/	Pass
		836.5	50	0	9.984	/	Pass
		844	50	0	9.993	/	Pass

3.2 Test Graph

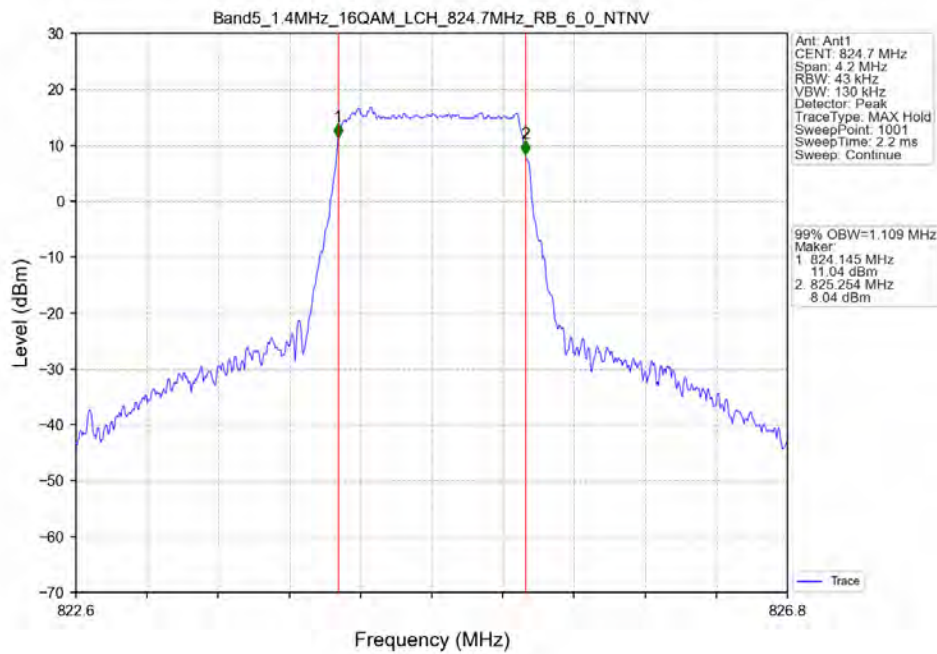
3.2.1 Band5_OBW



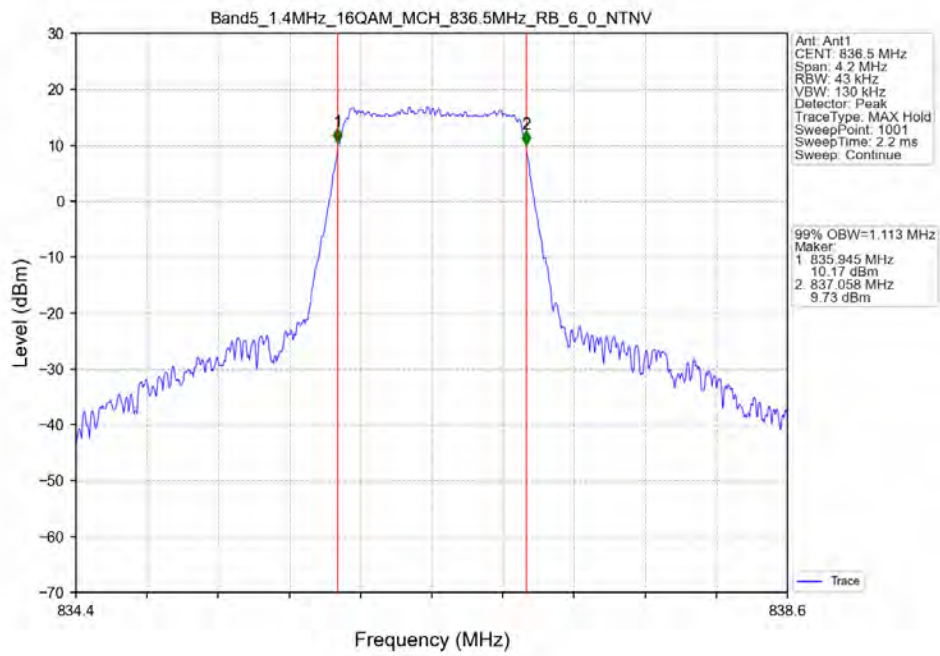
Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



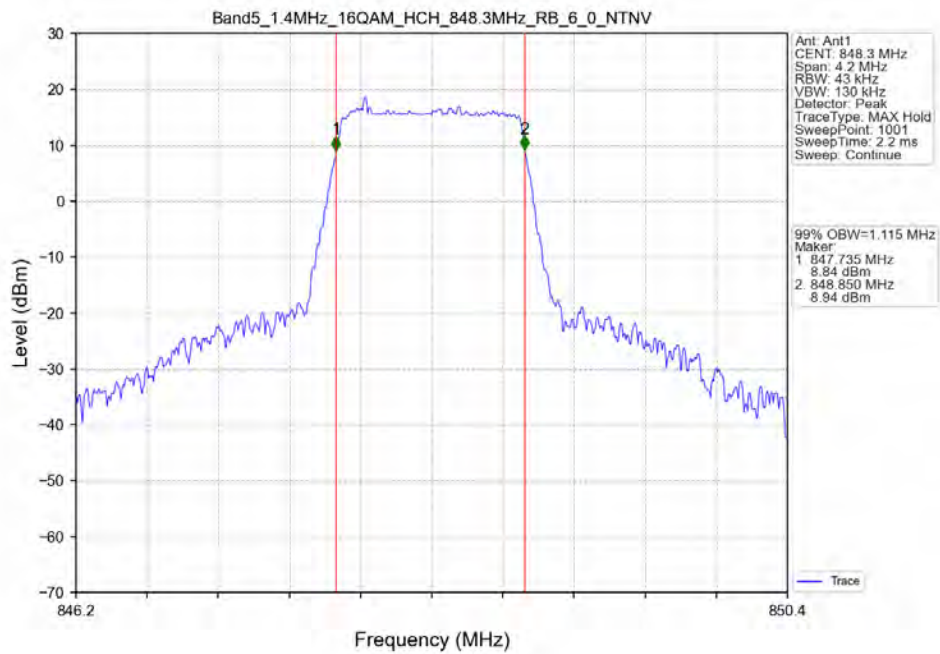
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6_0 NTN



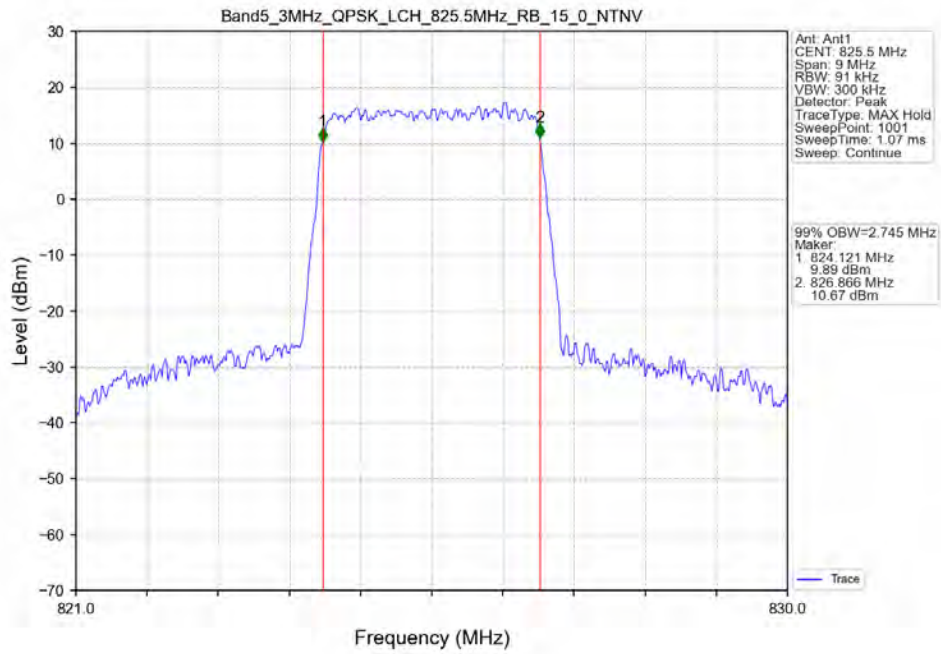
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



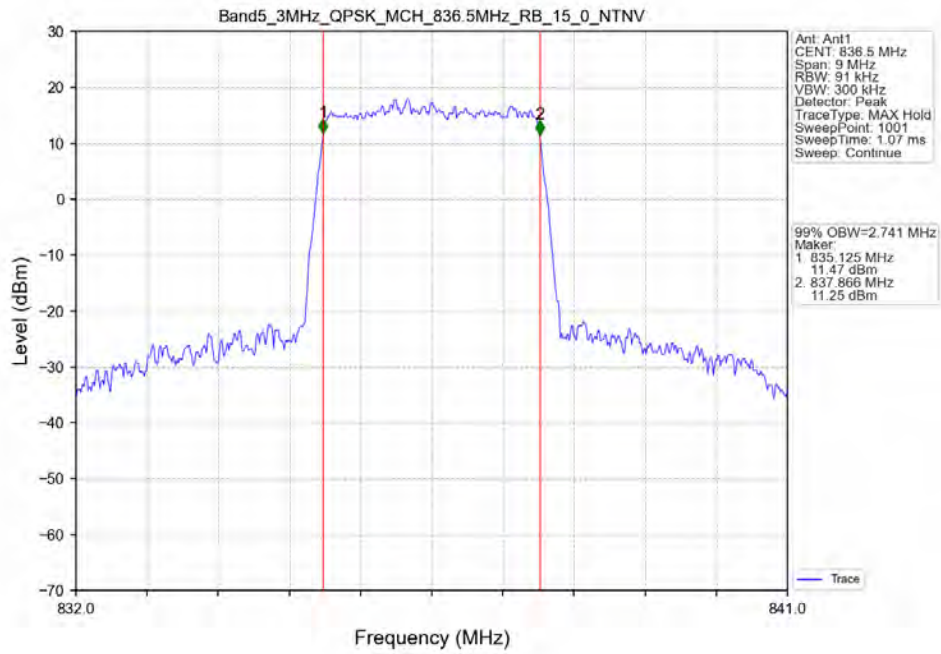
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



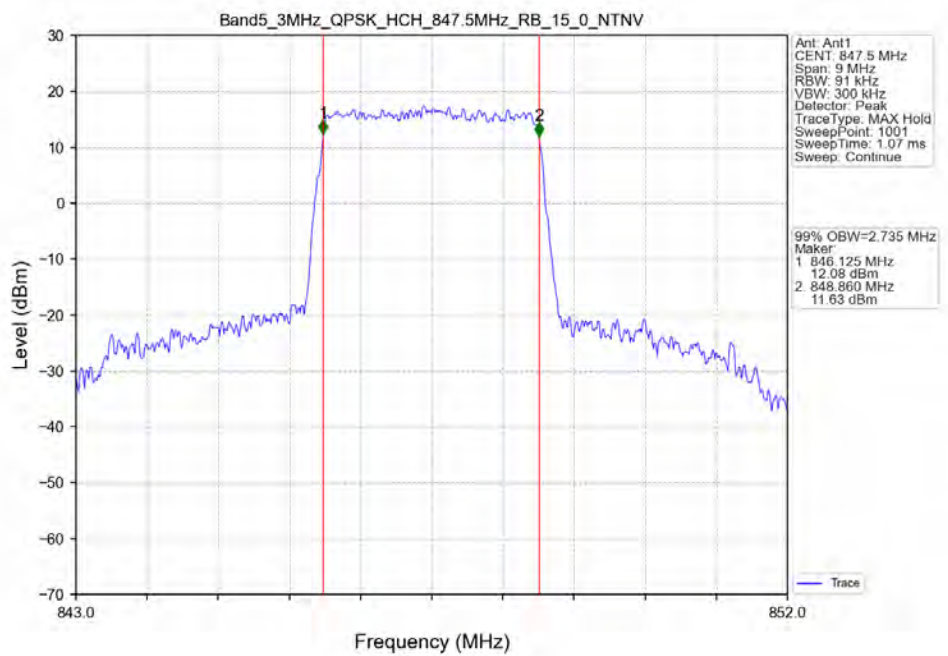
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



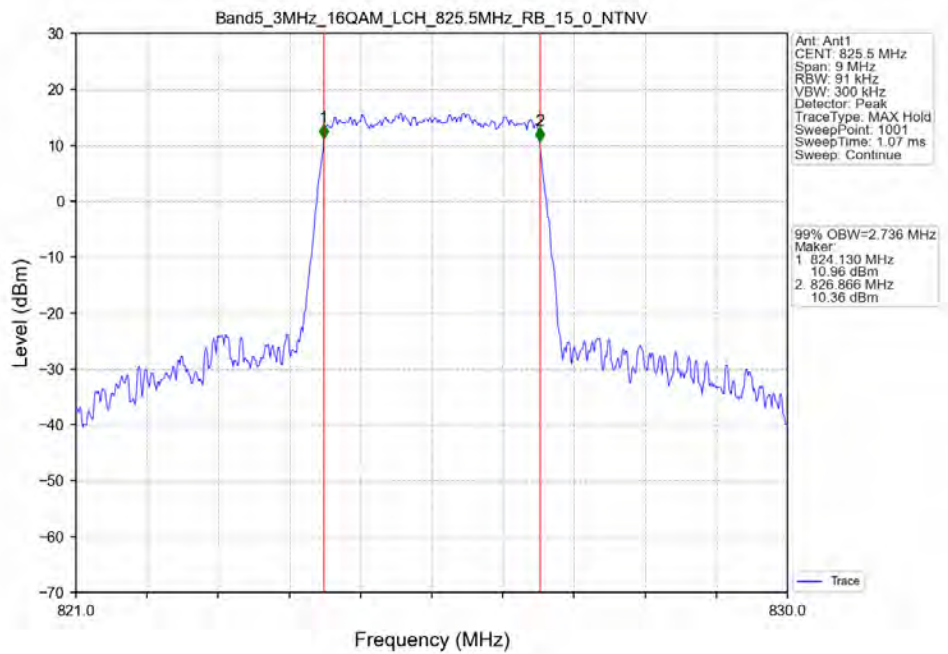
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



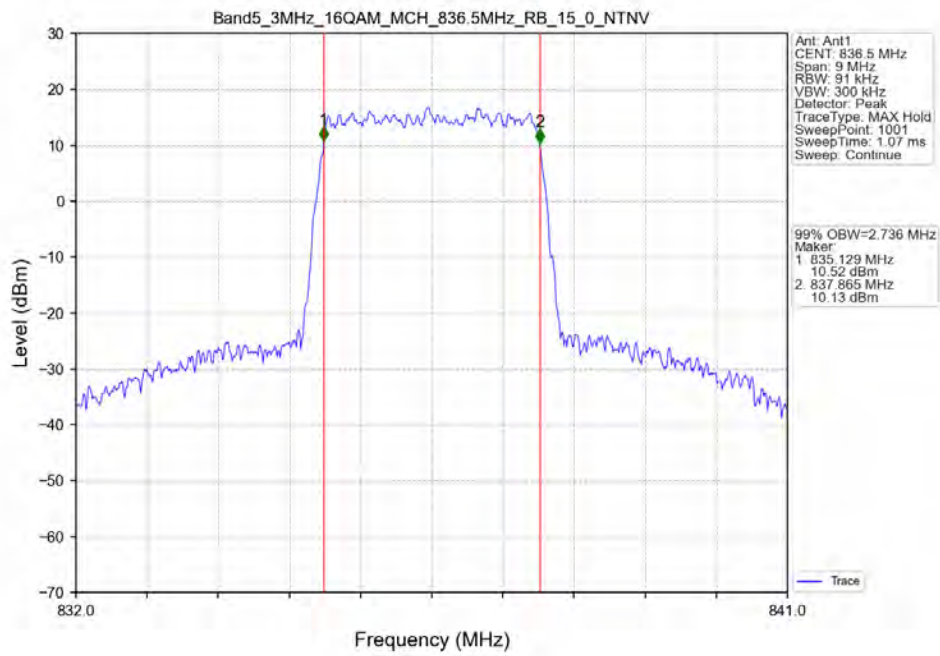
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



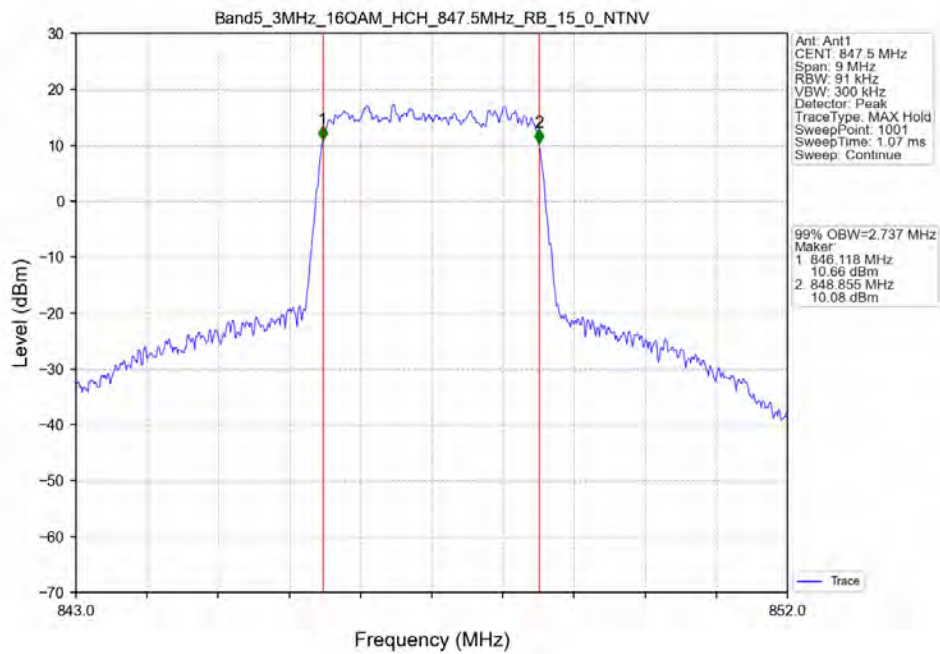
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



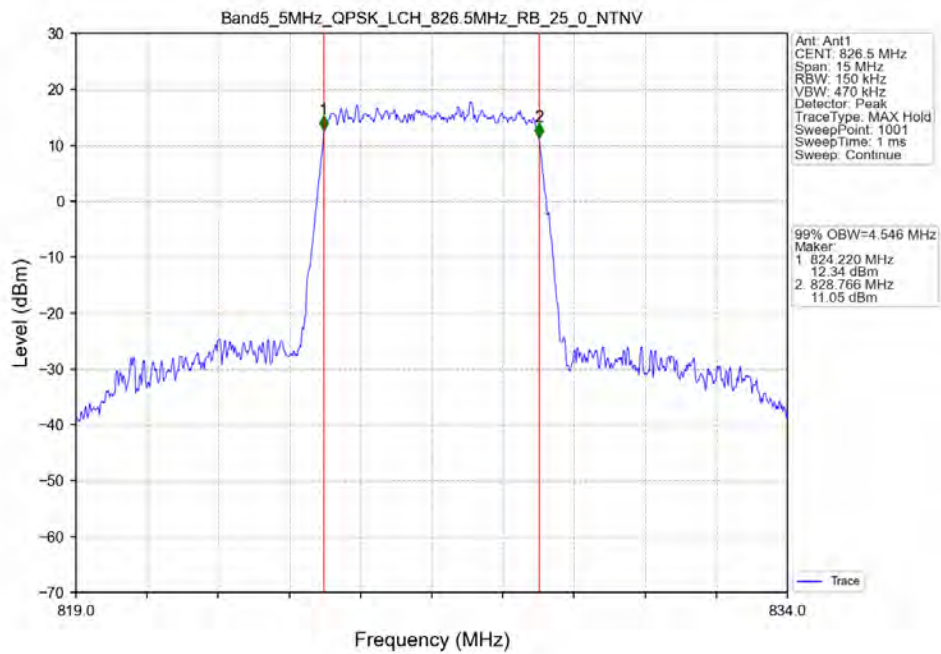
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



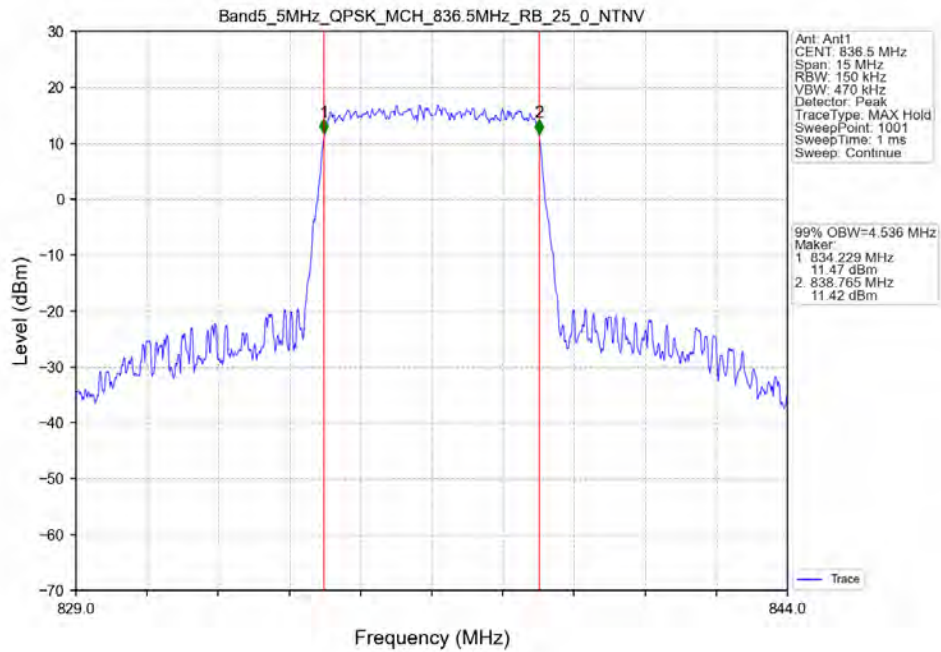
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



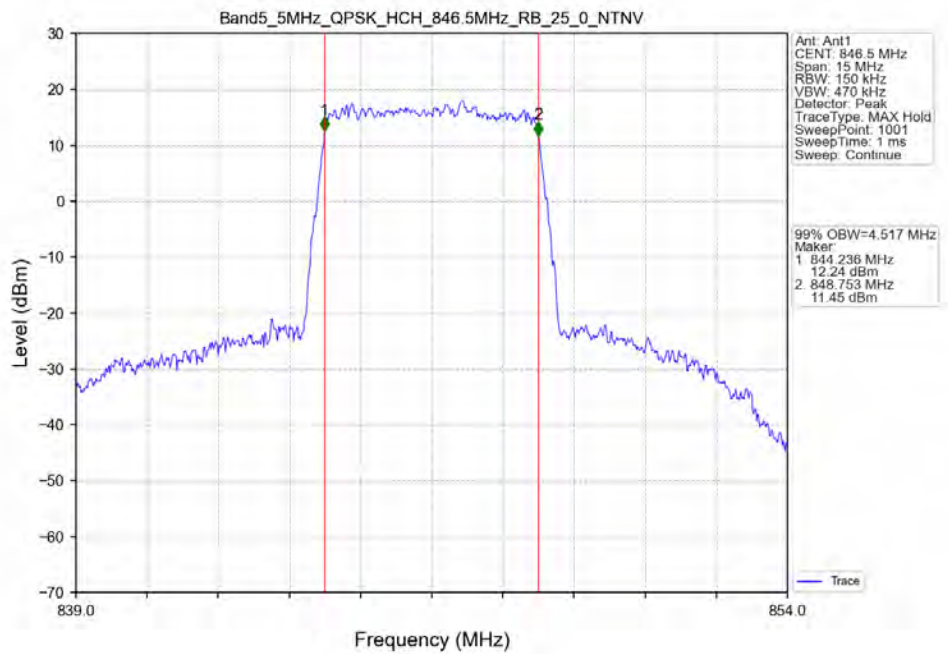
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



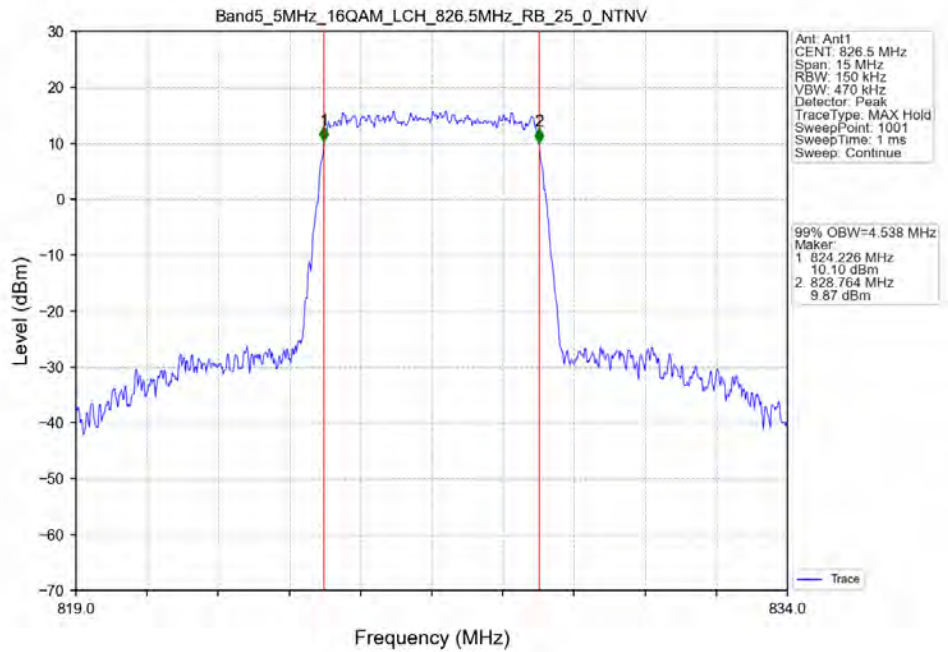
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



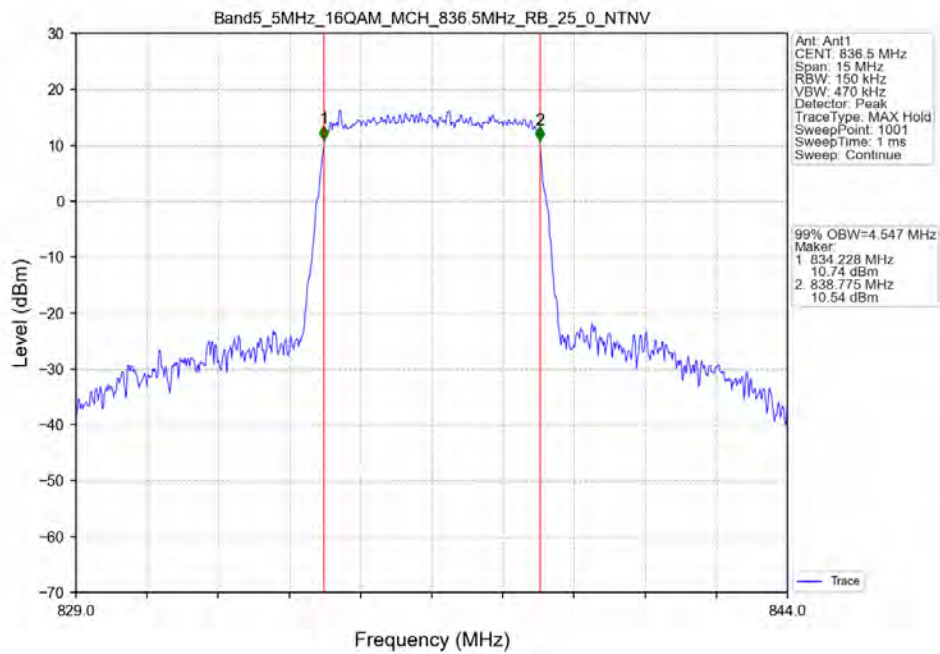
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



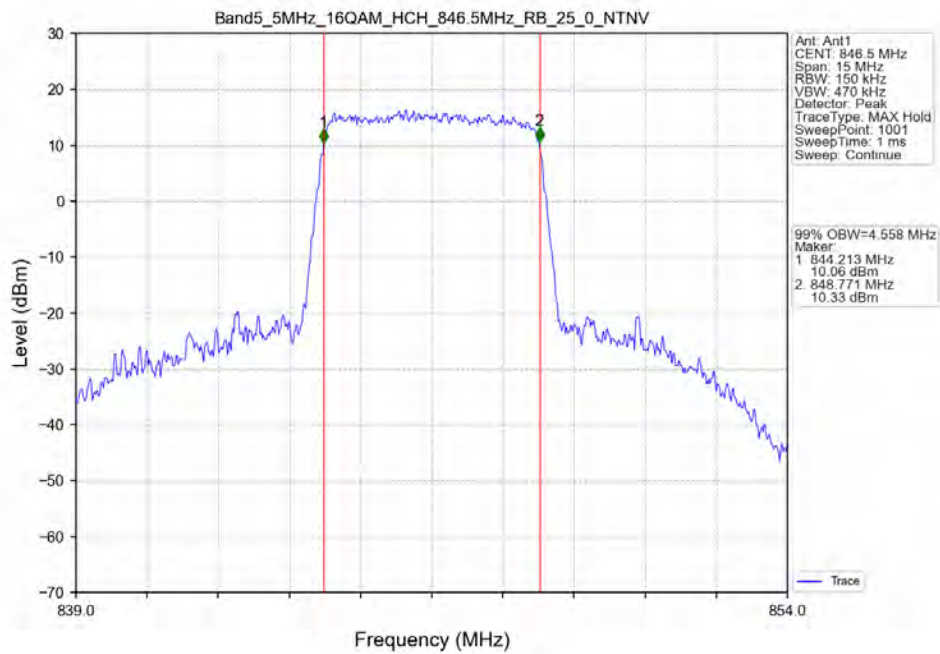
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



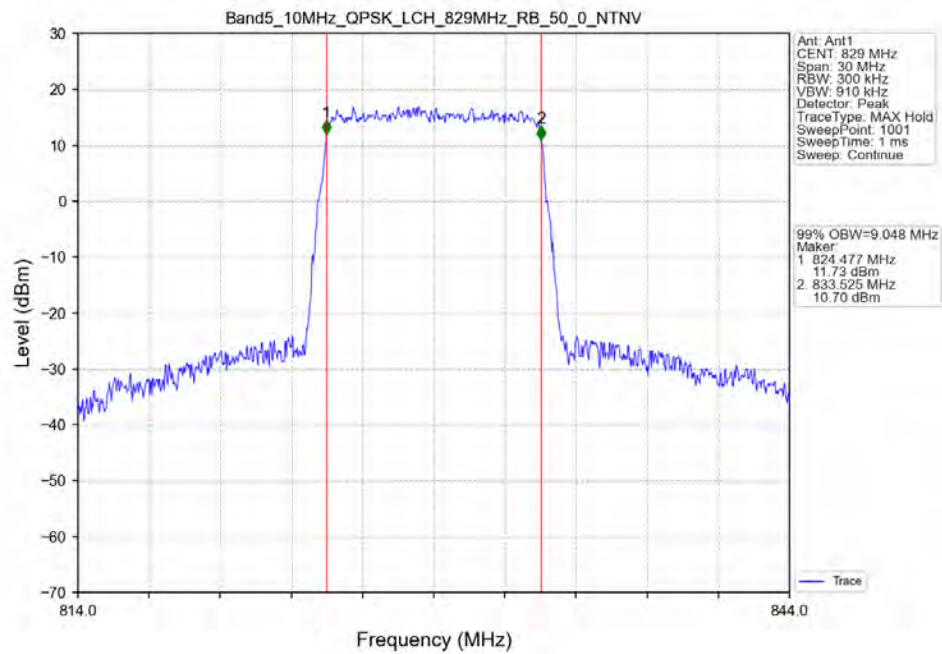
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



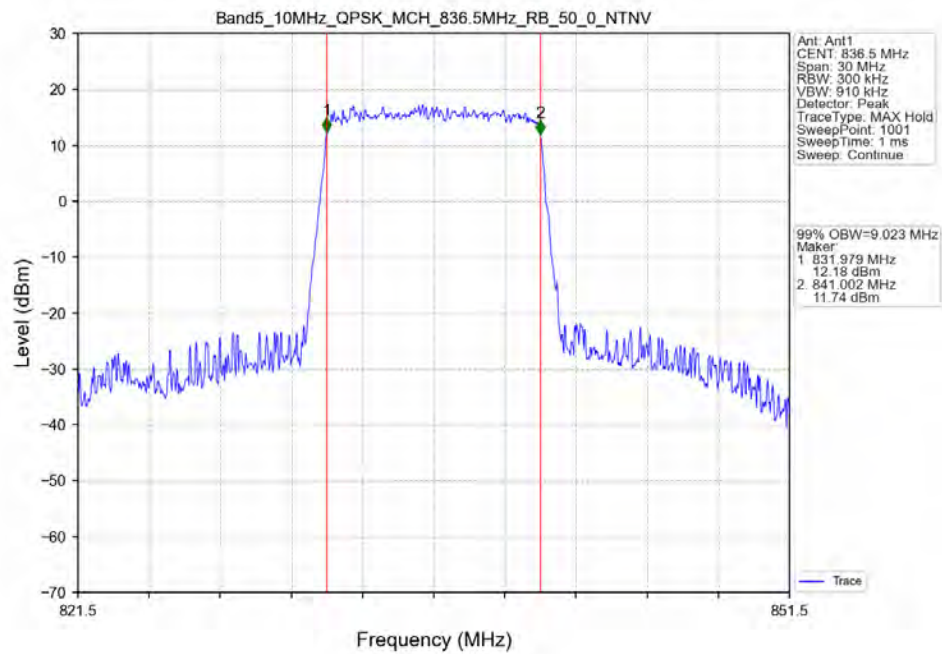
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



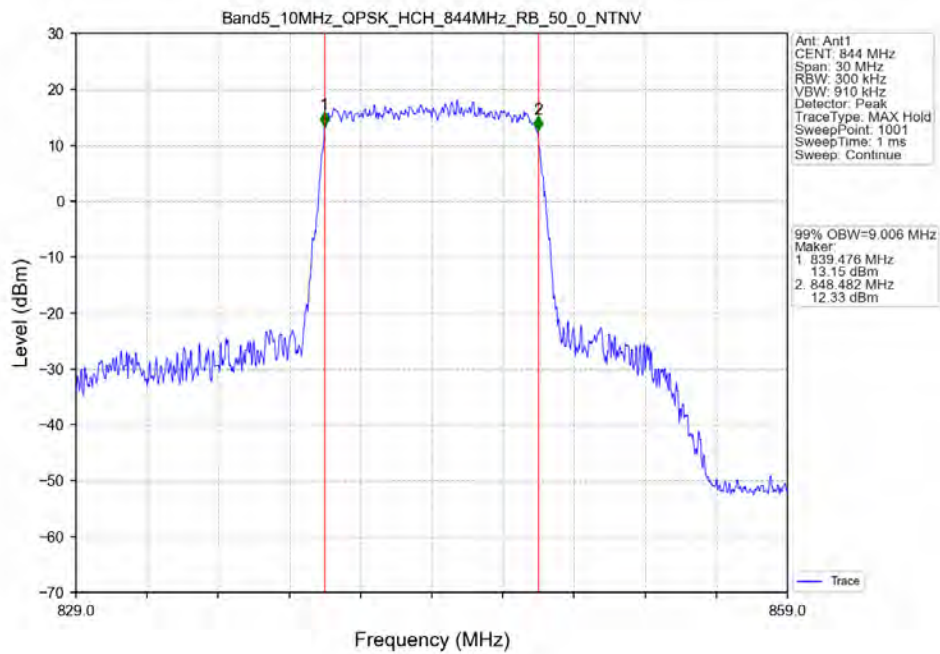
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



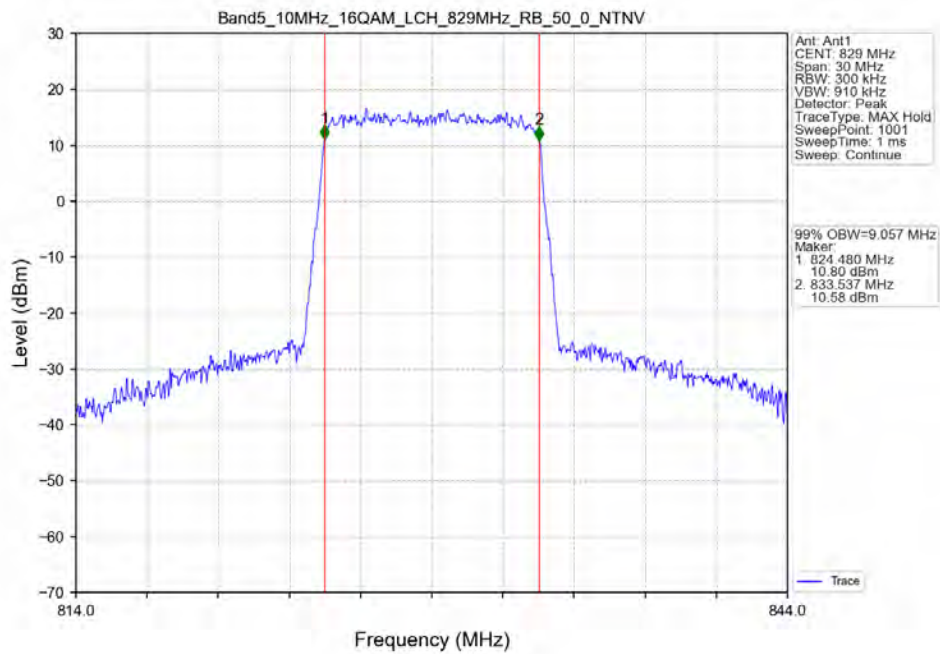
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



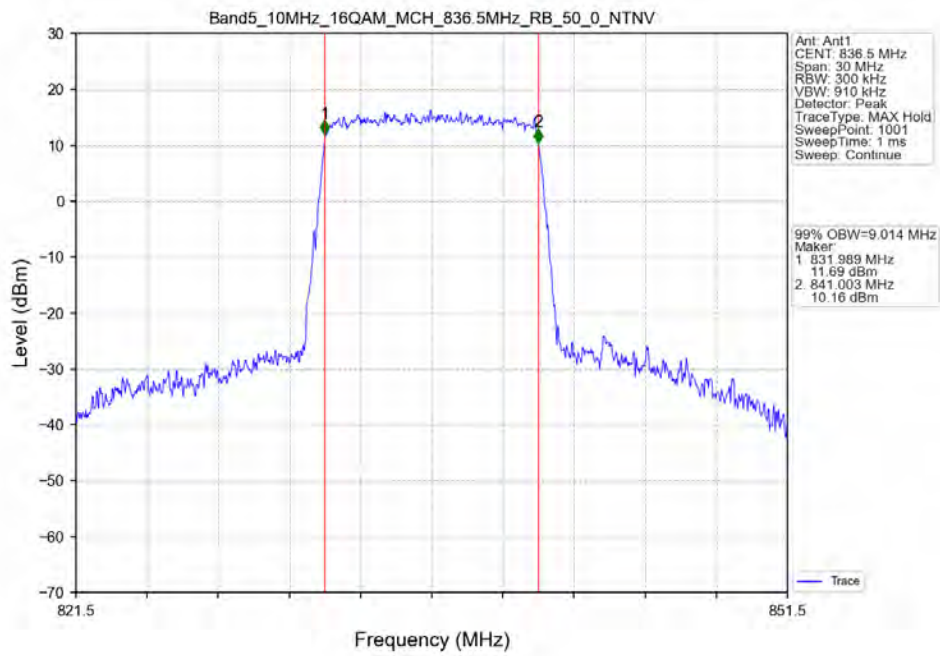
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



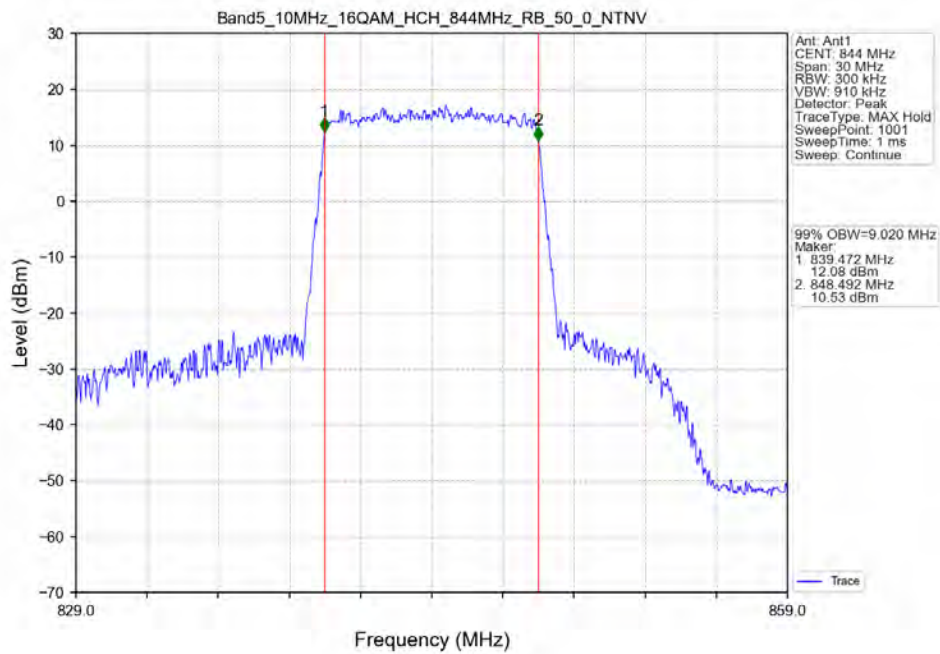
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

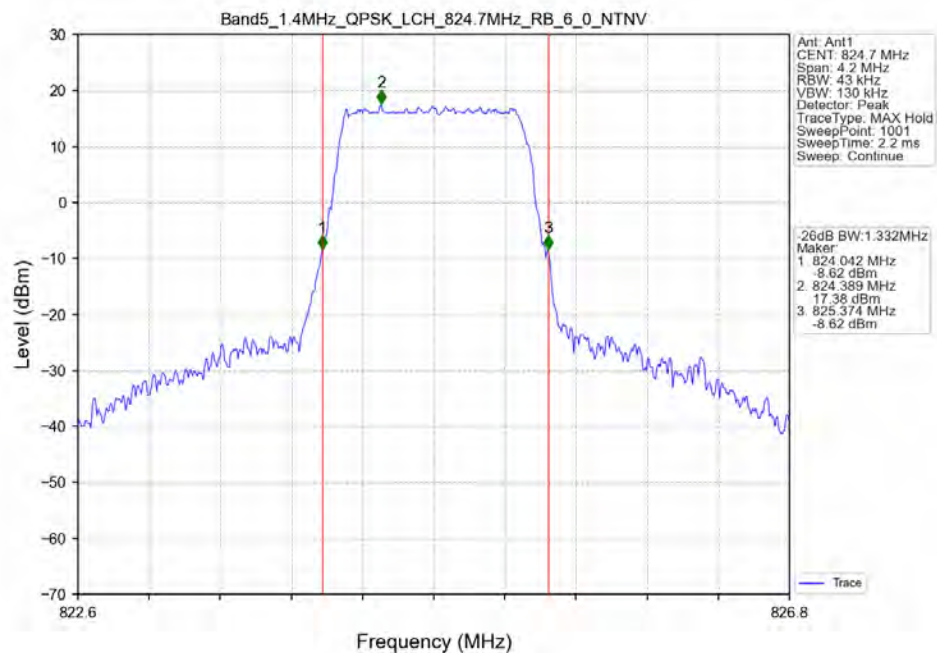


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

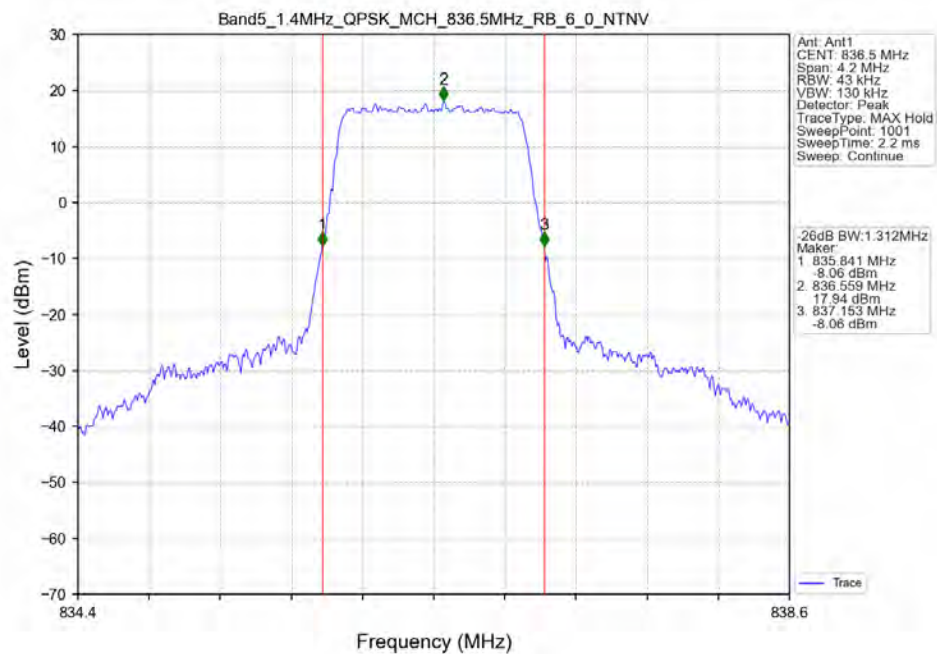


3.2.2 Band5_XDB

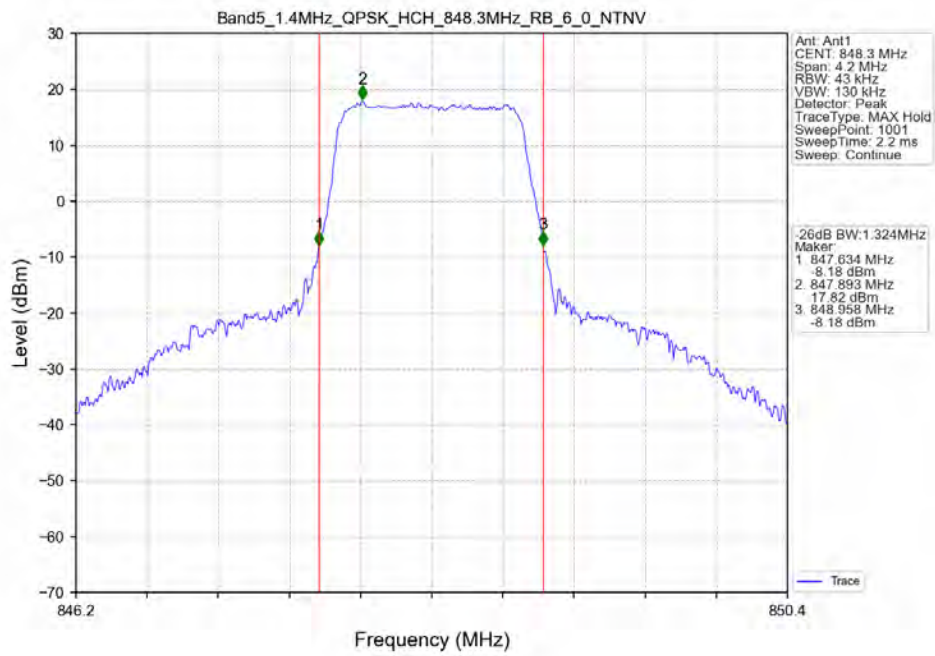
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



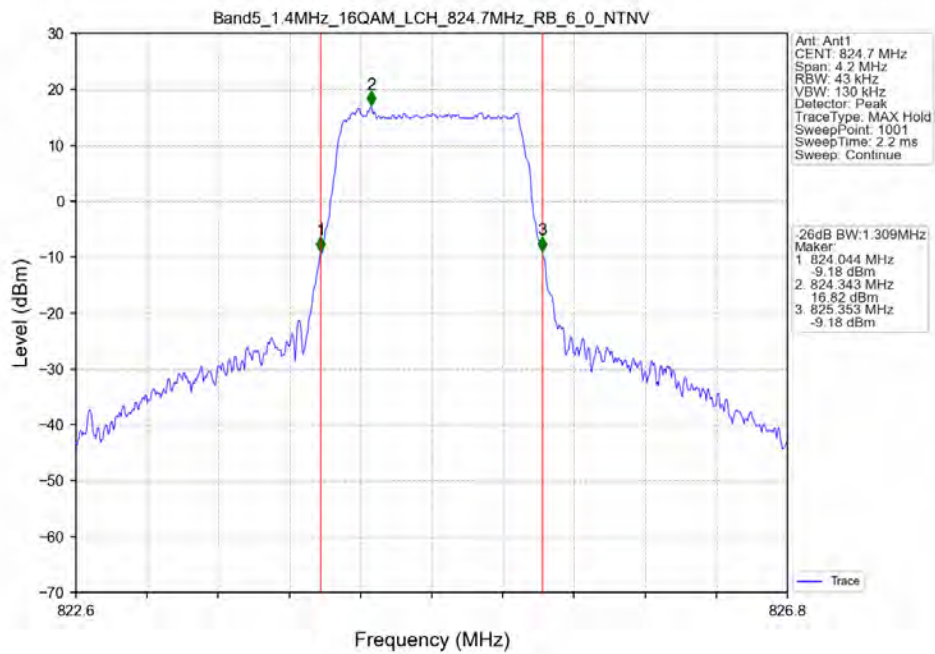
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



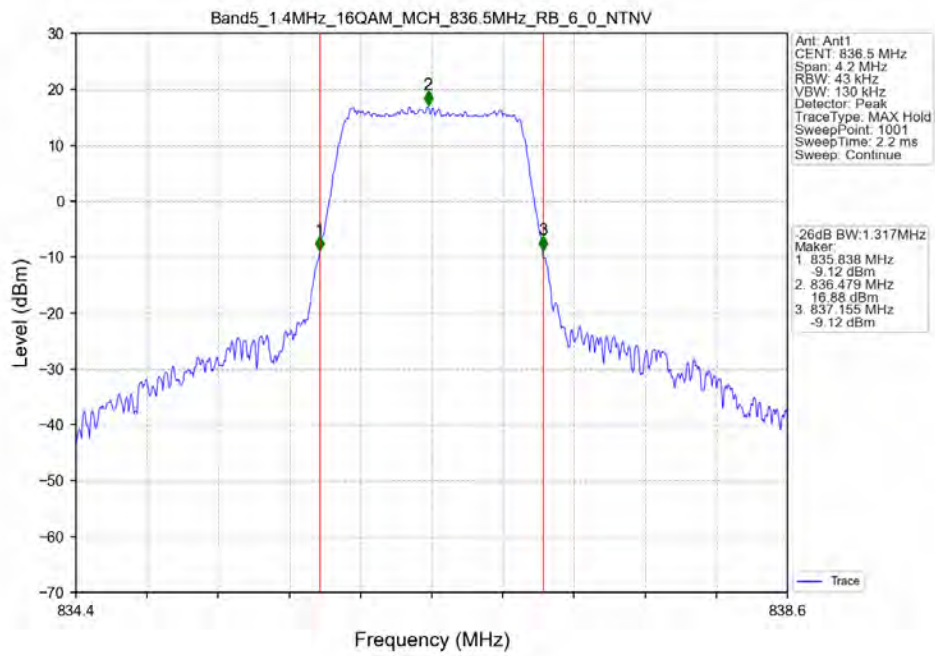
Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



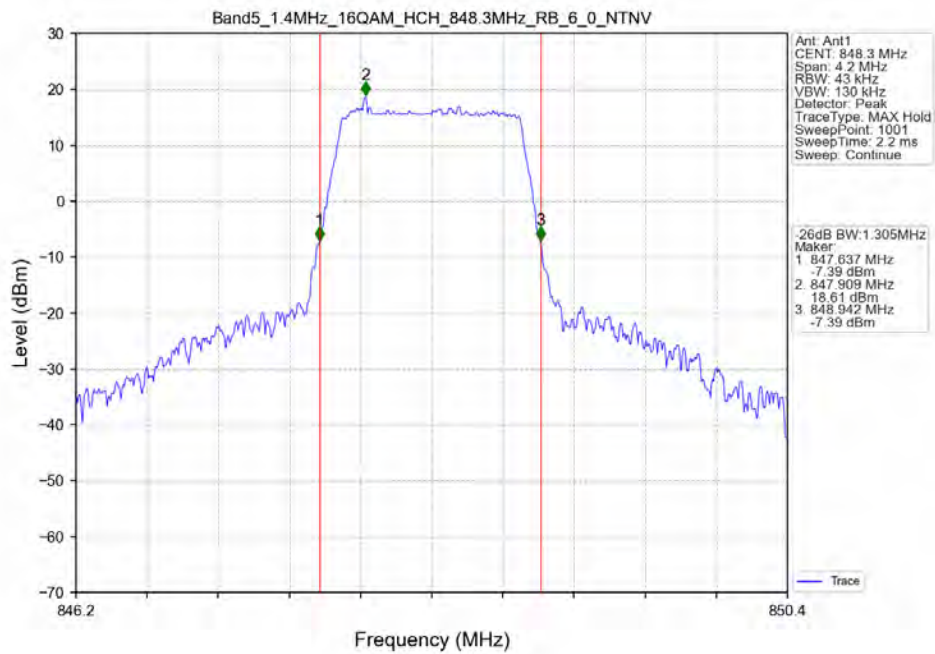
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6_0 NTN



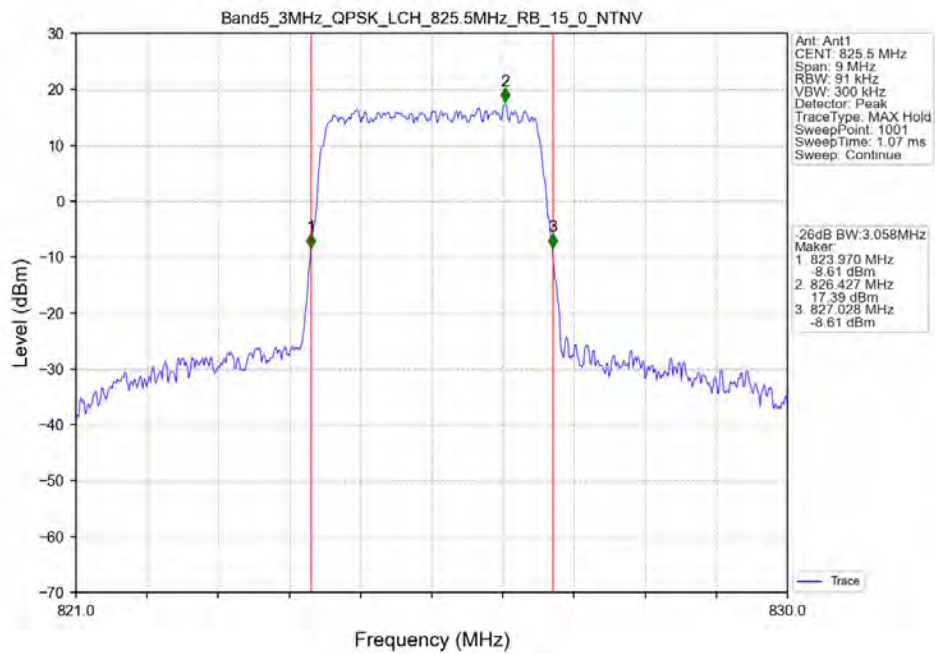
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



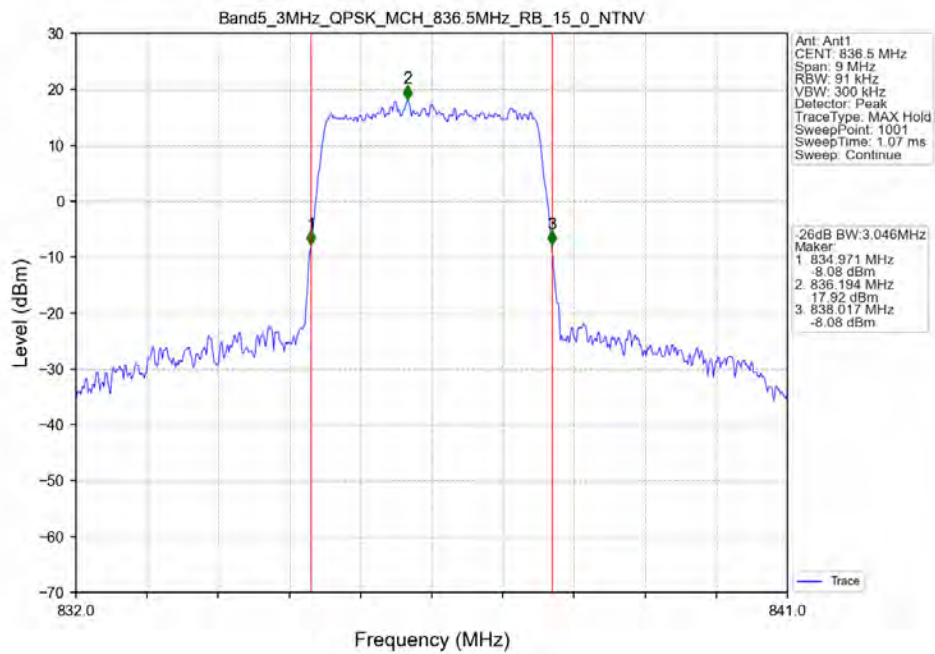
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



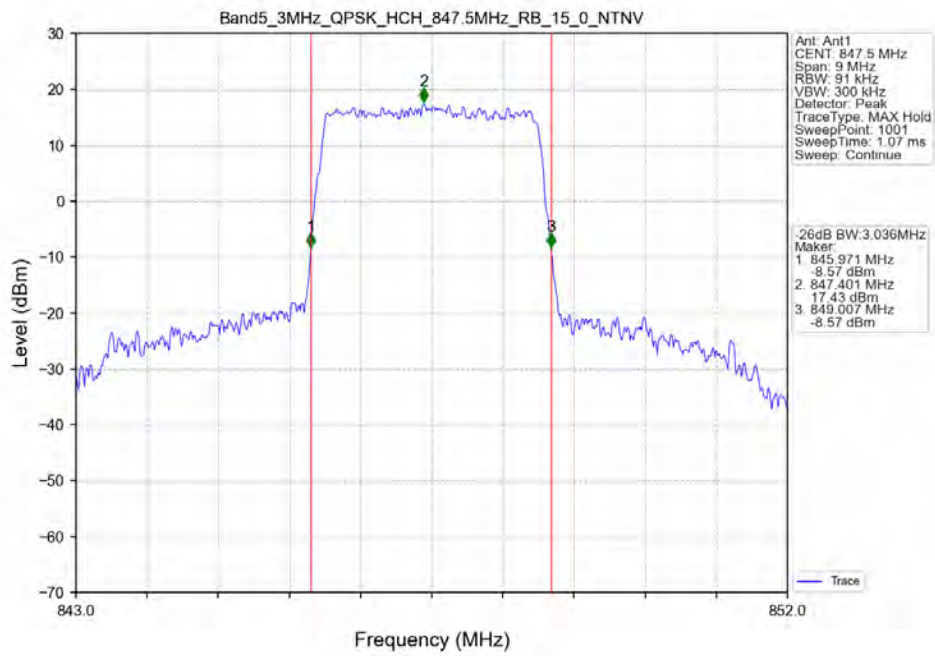
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



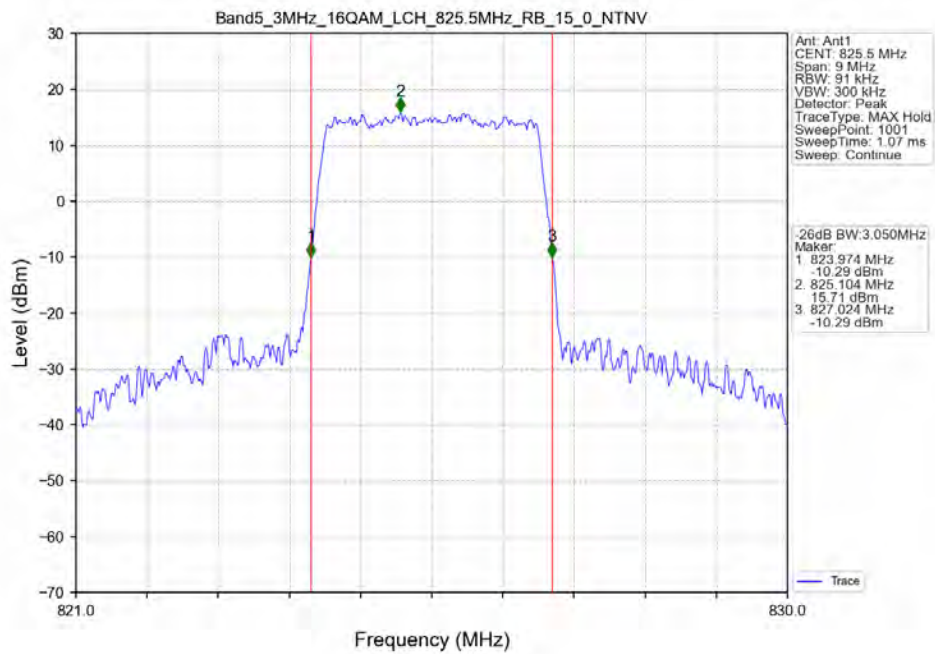
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



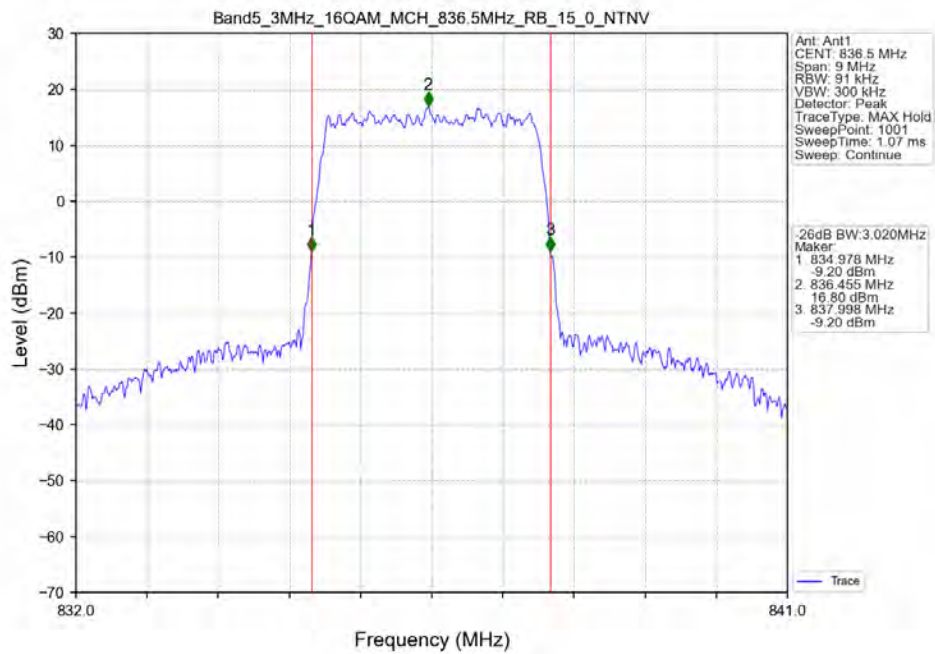
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



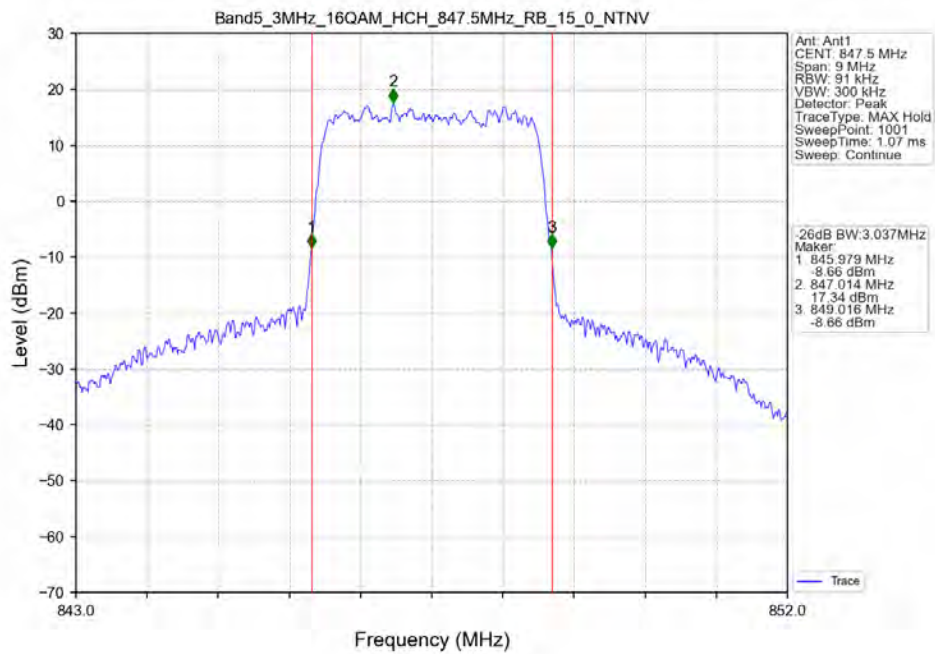
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



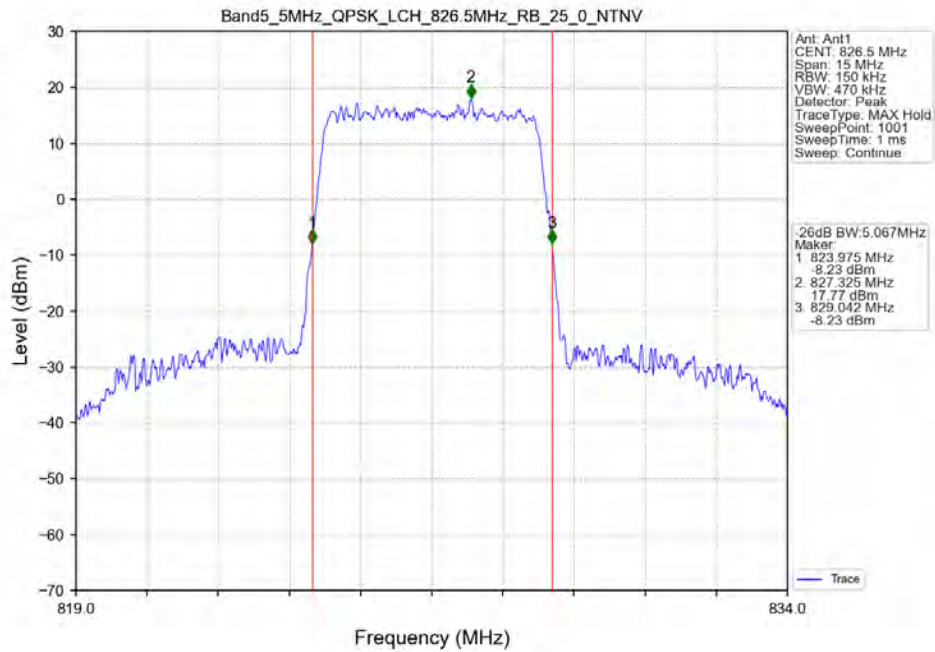
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



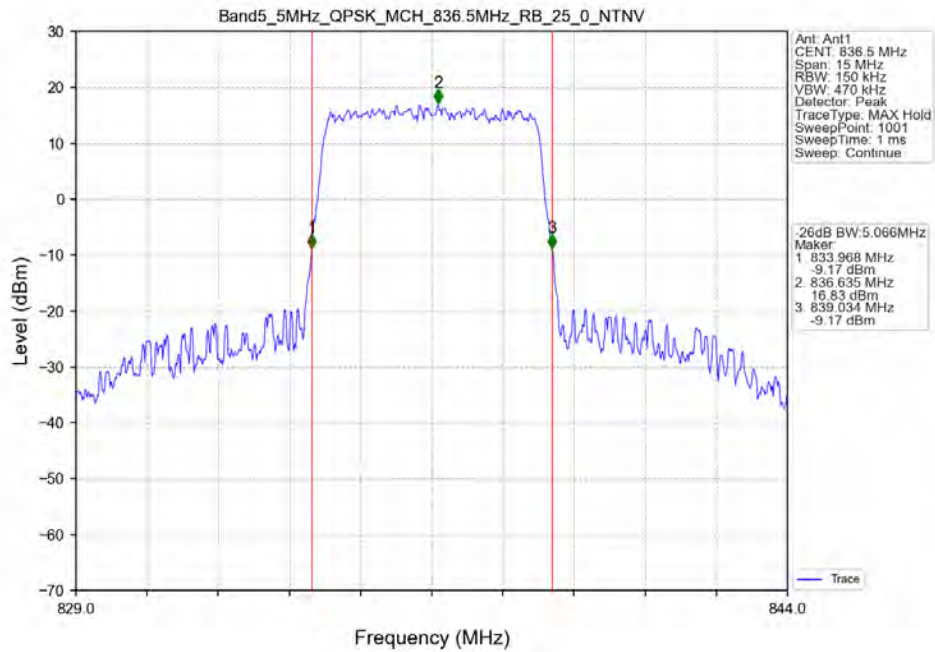
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



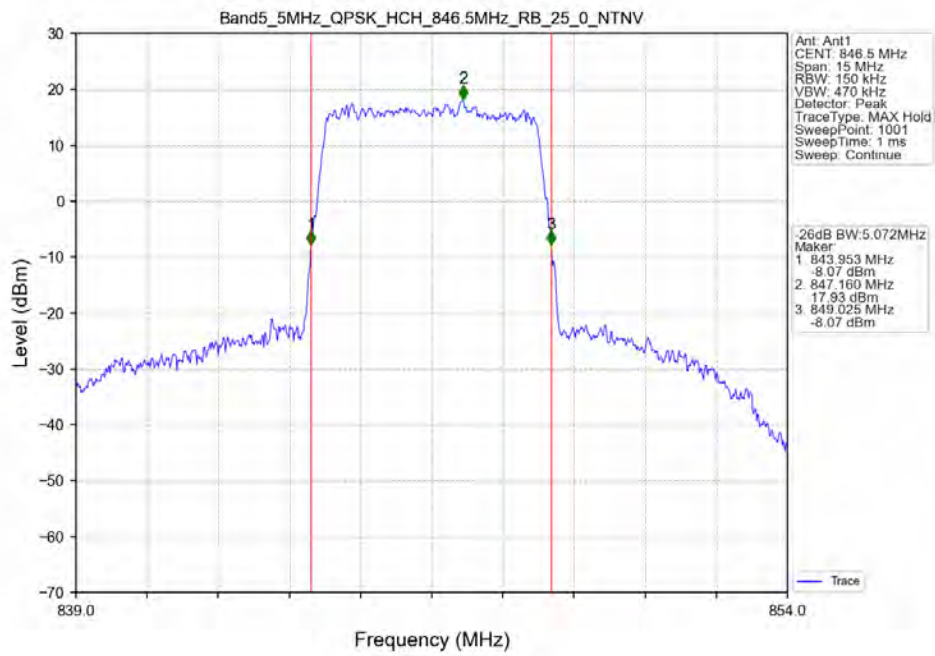
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



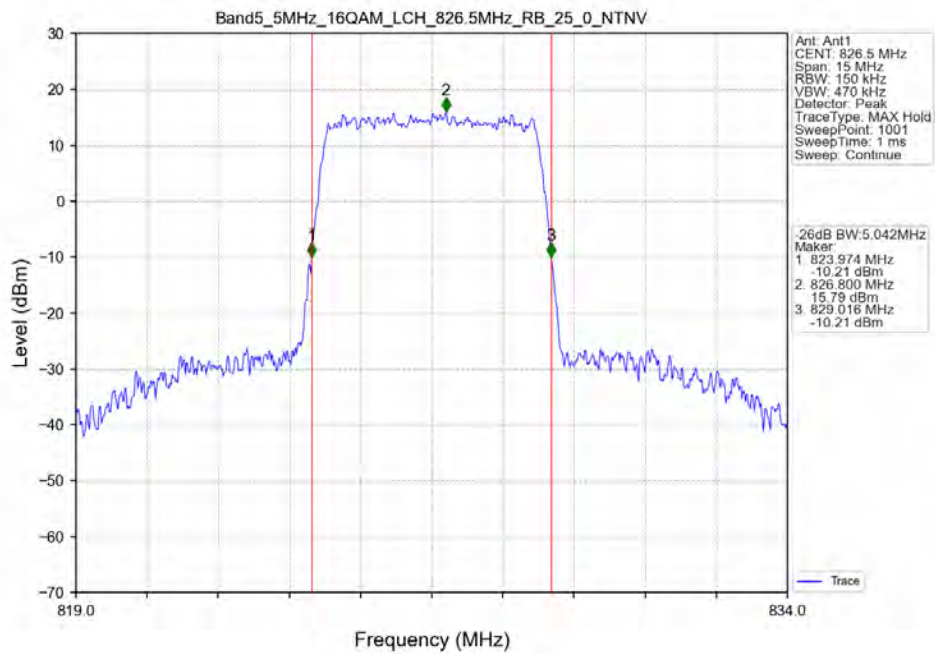
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



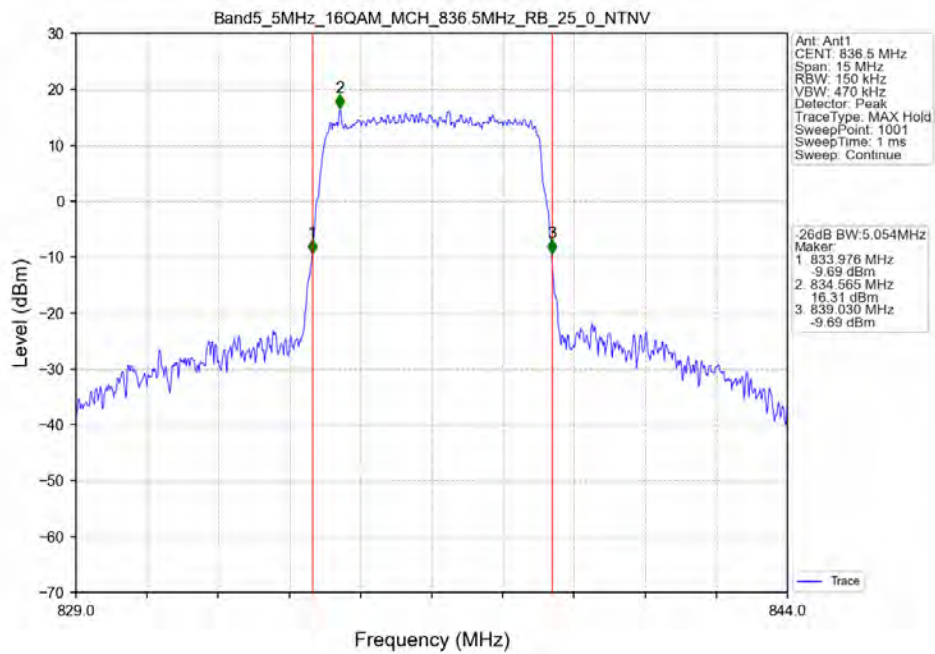
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



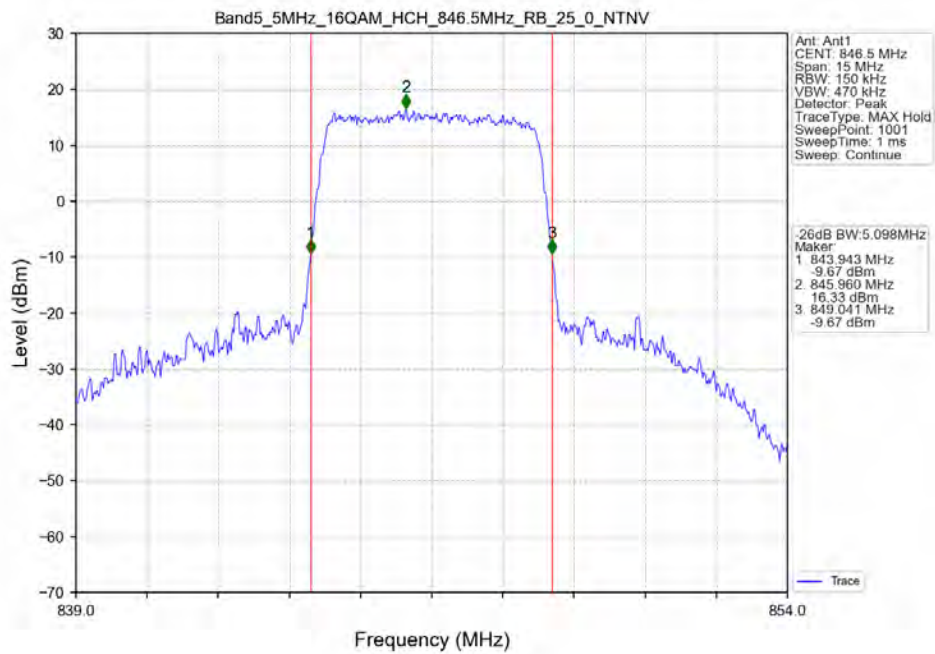
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



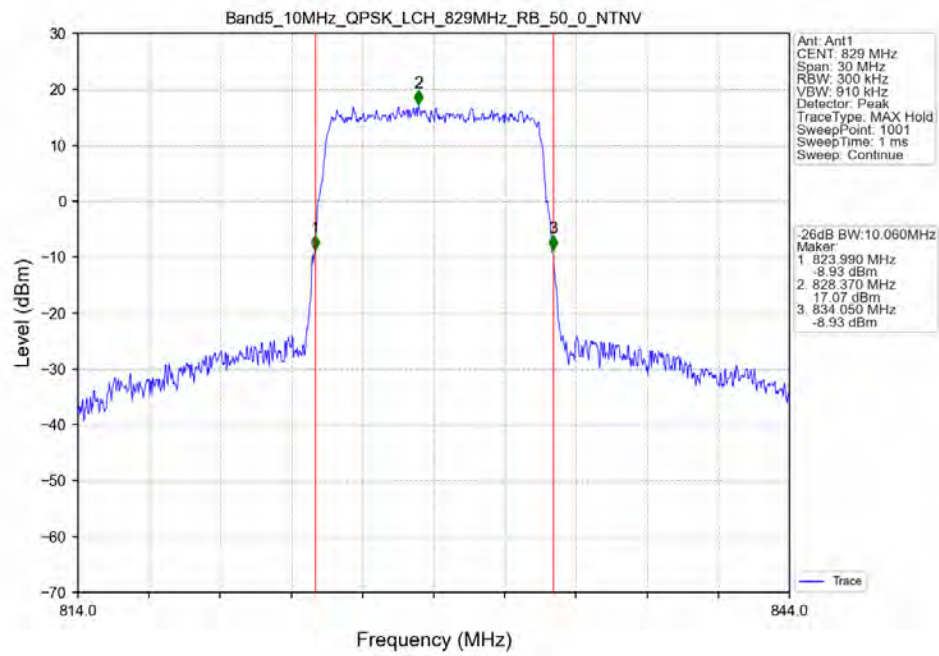
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



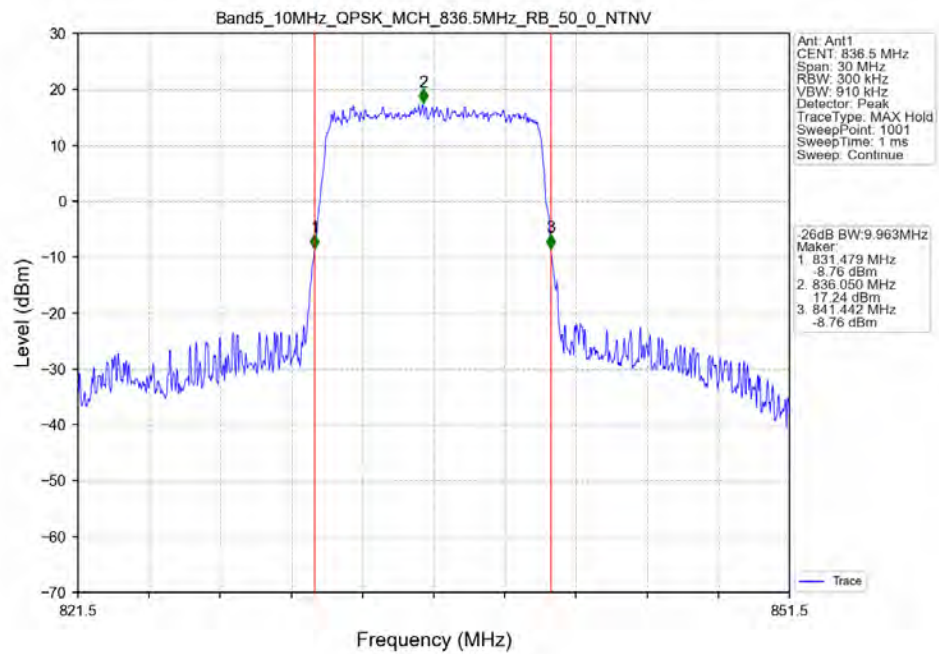
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



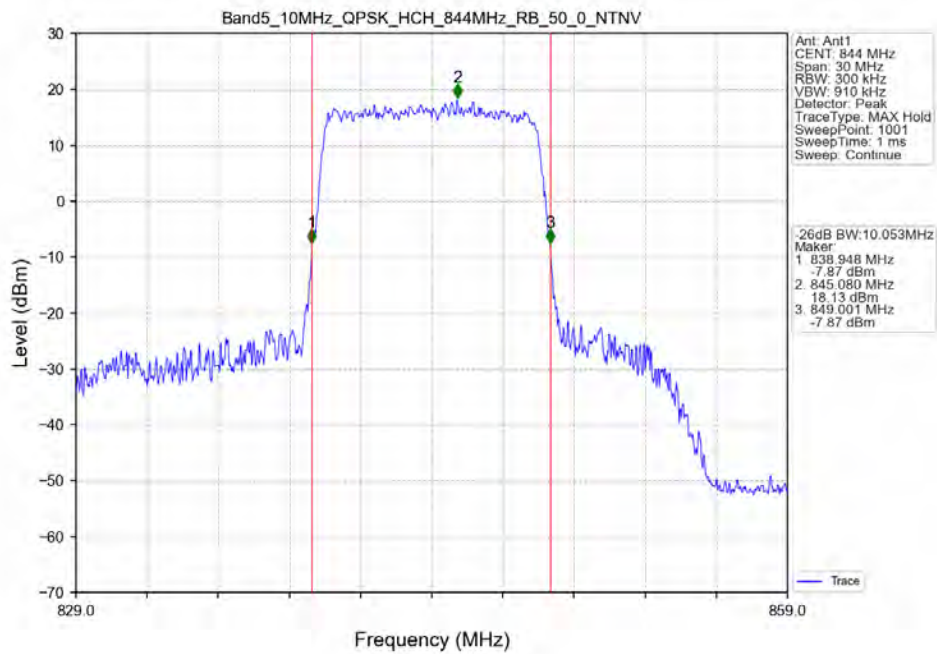
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



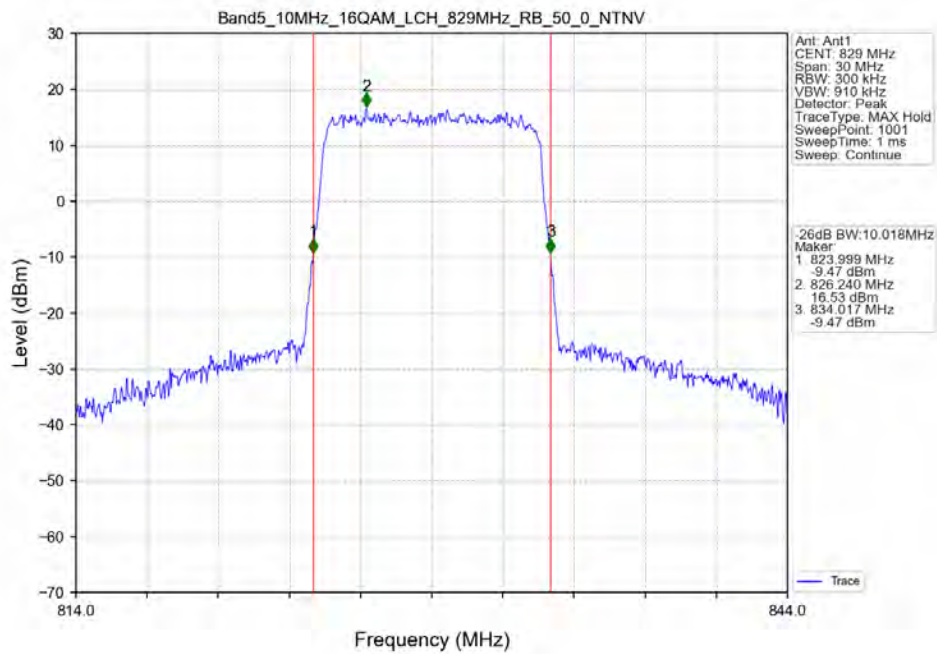
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



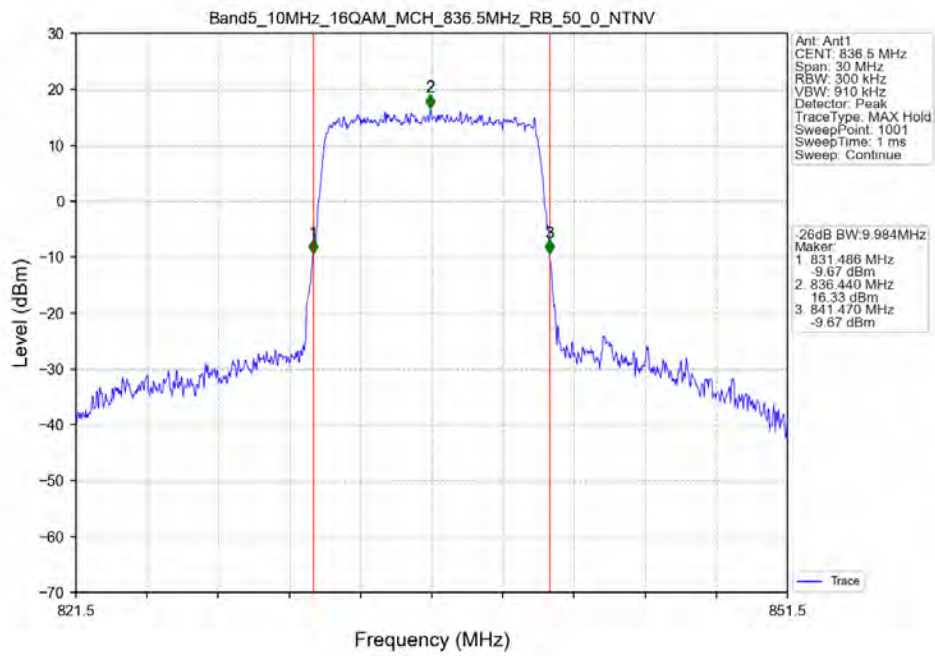
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



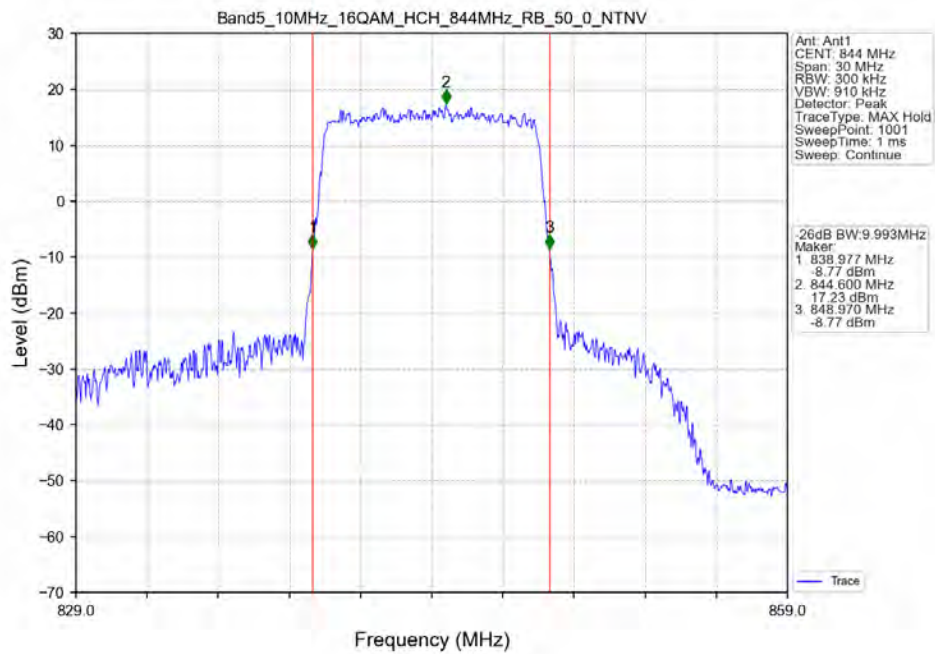
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



4. Peak-Average Ratio

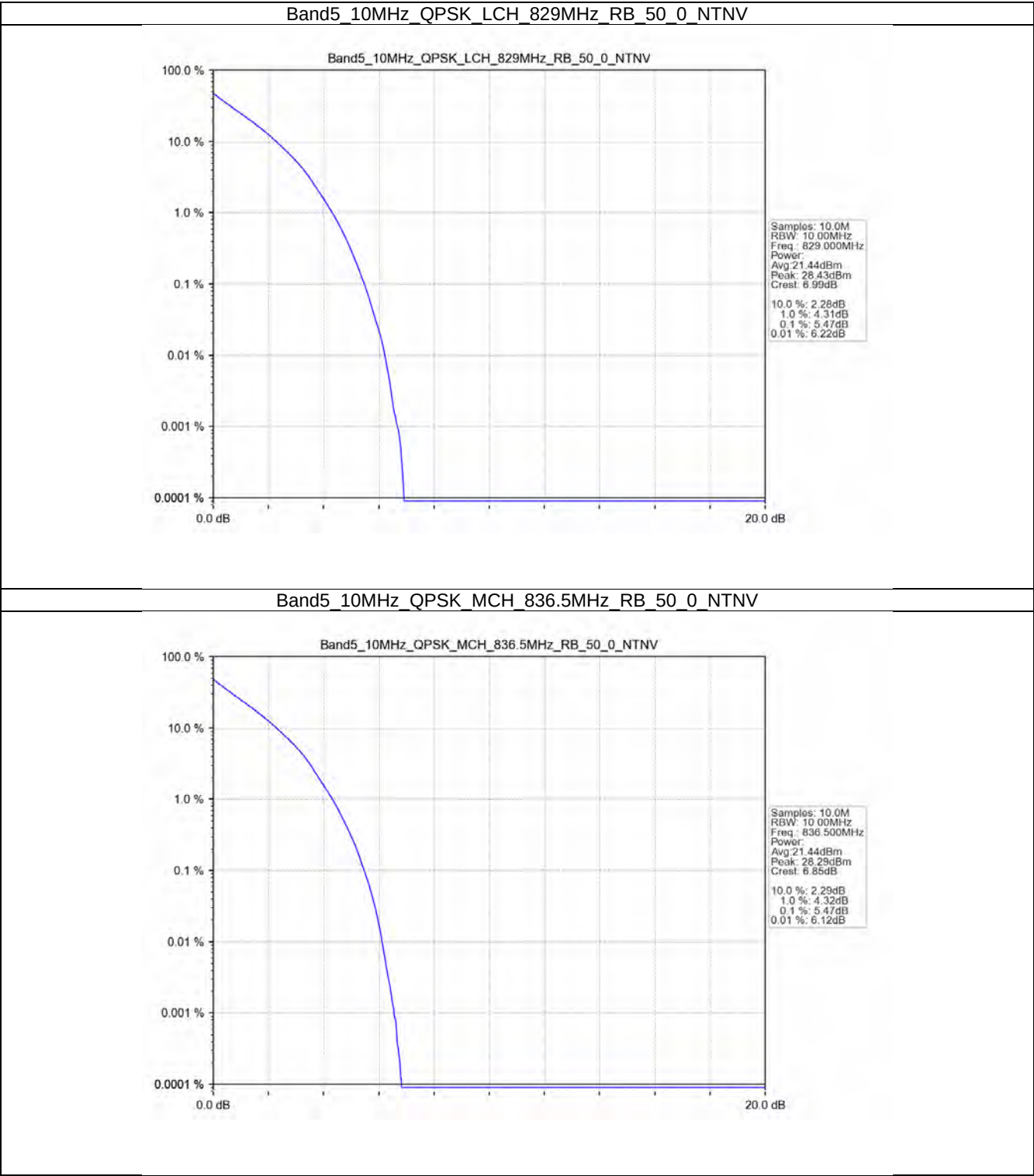
4.1 Test Result

4.1.1 B5_10MHz

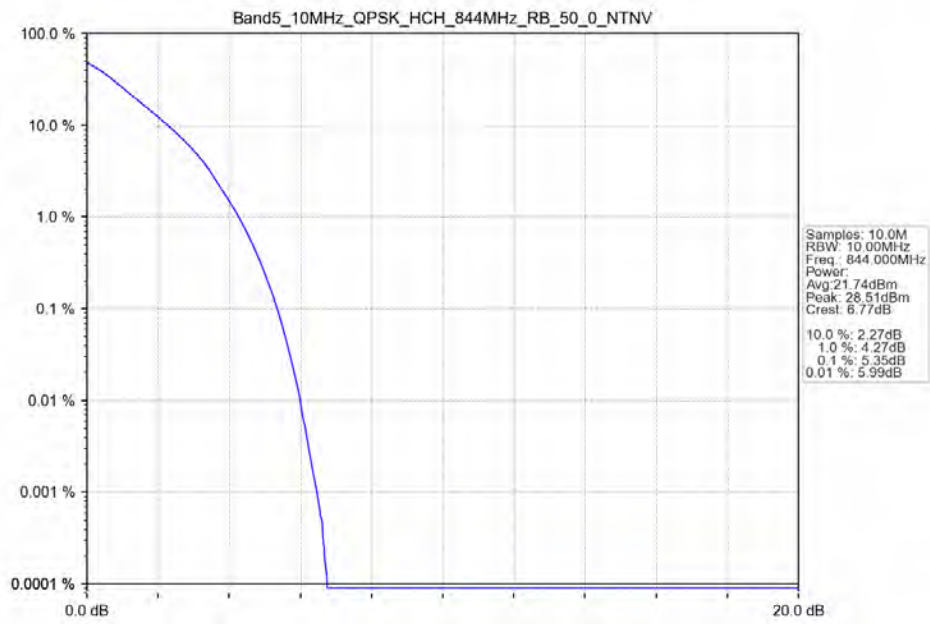
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.47	<=13	Pass
	836.5	50	0	5.47	<=13	Pass
	844	50	0	5.35	<=13	Pass
16QAM	829	50	0	6.18	<=13	Pass
	836.5	50	0	6.26	<=13	Pass
	844	50	0	6.17	<=13	Pass

4.2 Test Graph

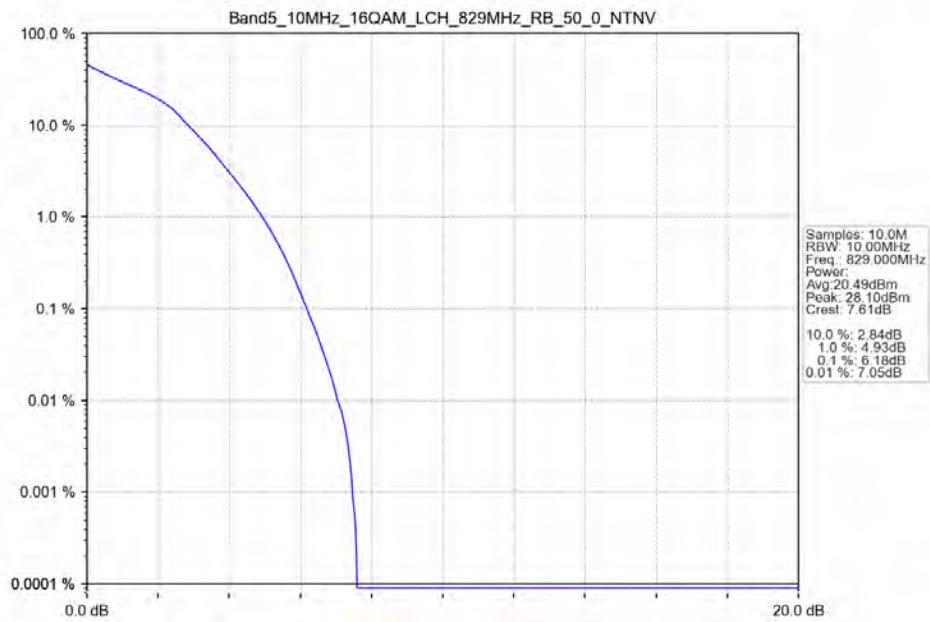
4.2.1 B5_10MHz



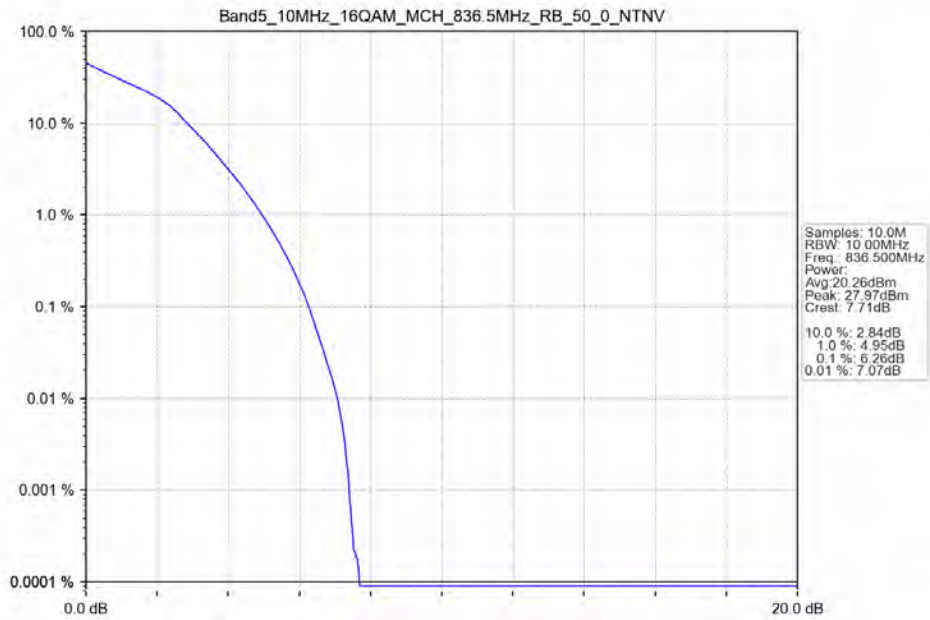
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



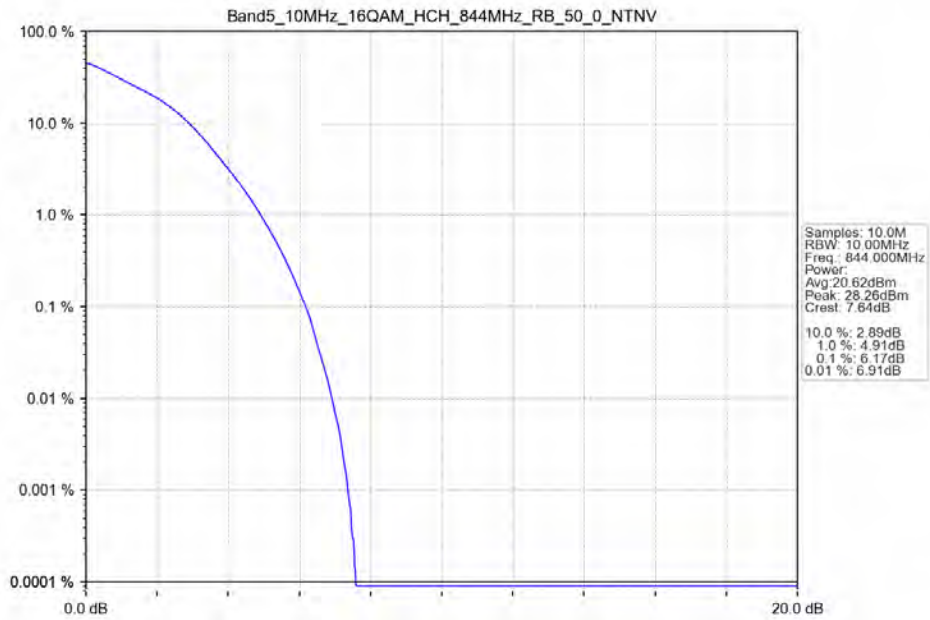
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



5. Spurious Emission & Band Edges

5.1 Test Result

5.1.1 B5_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTVN						
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

5.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B5_5MHz

Band: 5 / Bandwidth: 5MHz / NTVN						
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

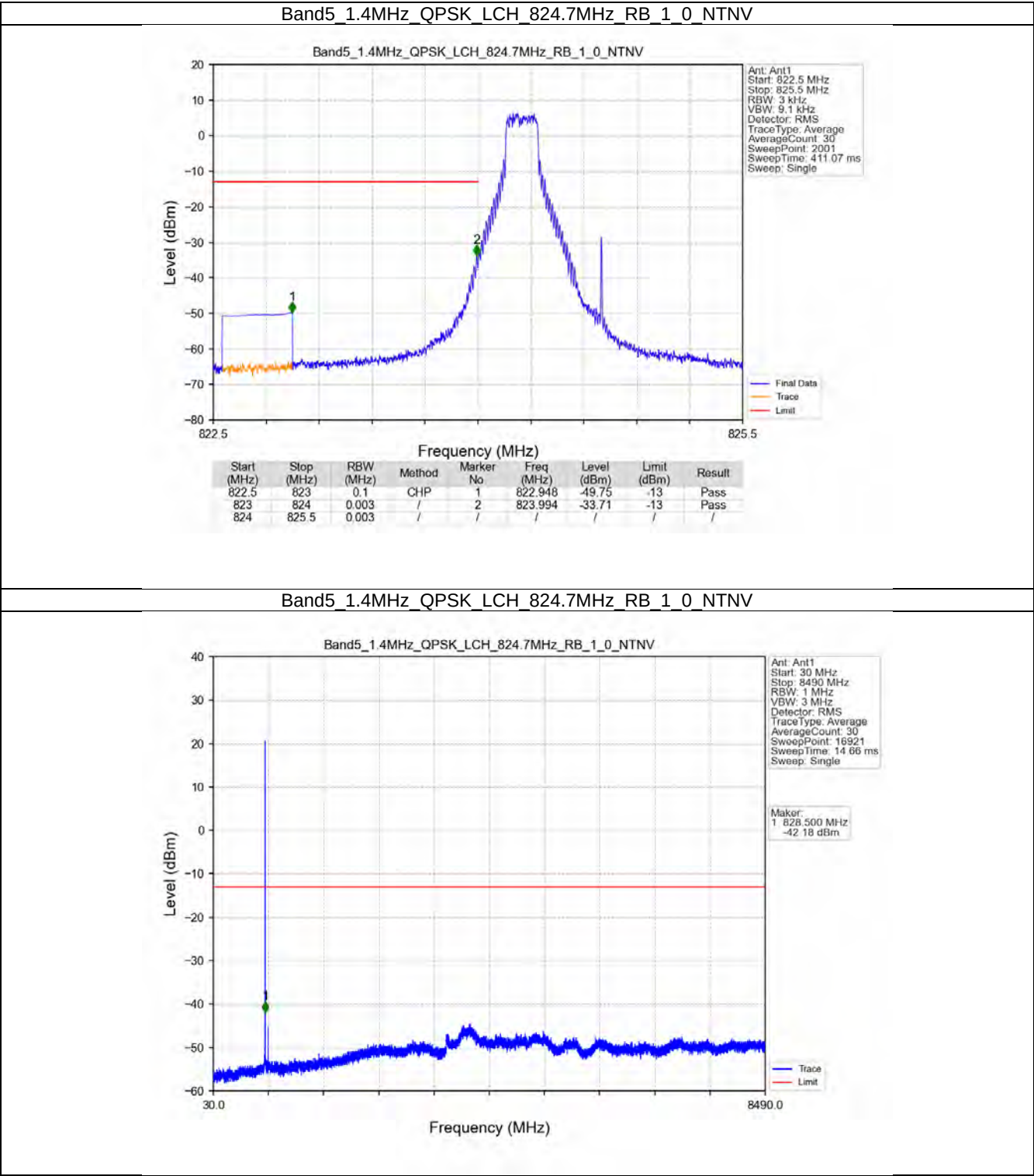
	836.5	1	0	Refer To Test Graph	Pass
	846.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

5.1.4 B5_10MHz

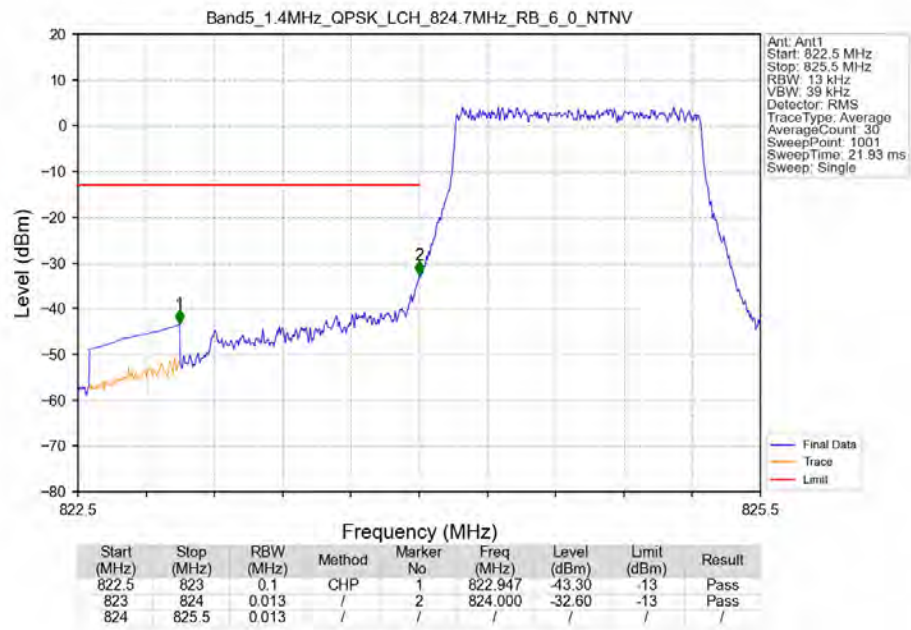
Band: 5 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	829	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	836.5	1	0	Refer To Test Graph	Pass
	844	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50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

5.2 Test Graph

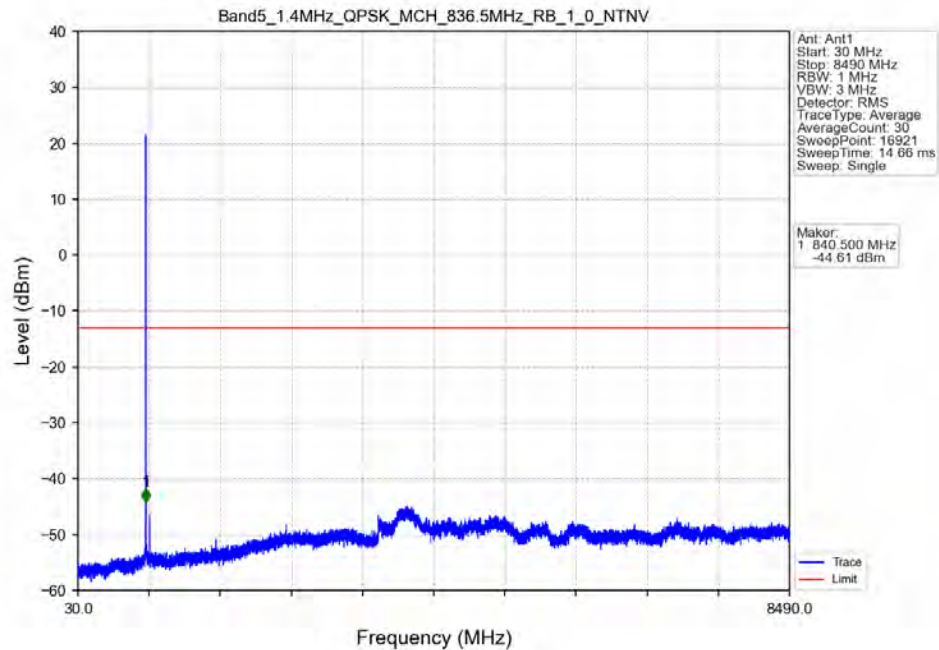
5.2.1 B5_1.4MHz



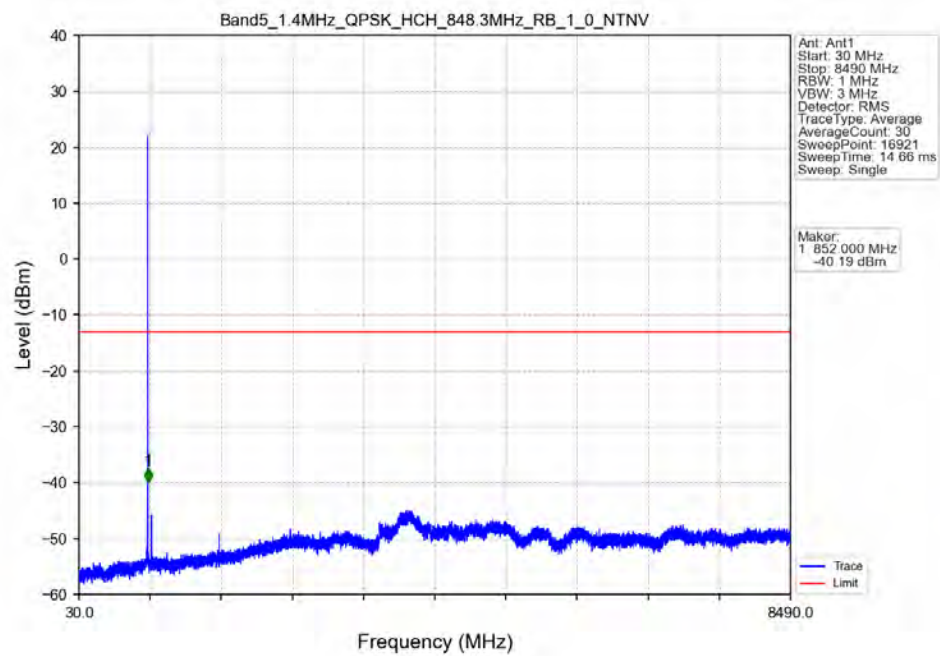
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



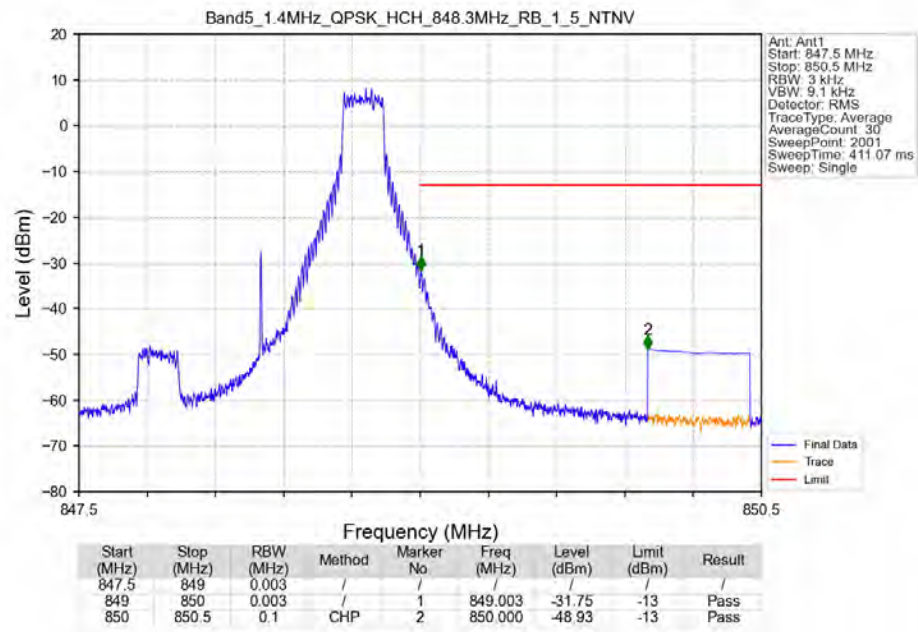
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



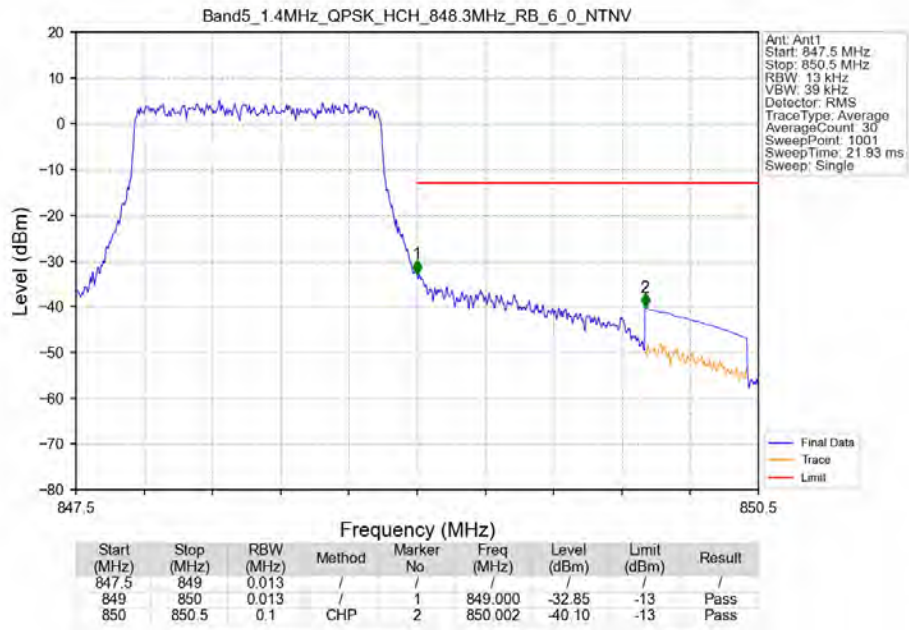
Band5 1.4MHz QPSK HCH 848.3MHz RB 1_0 NTN



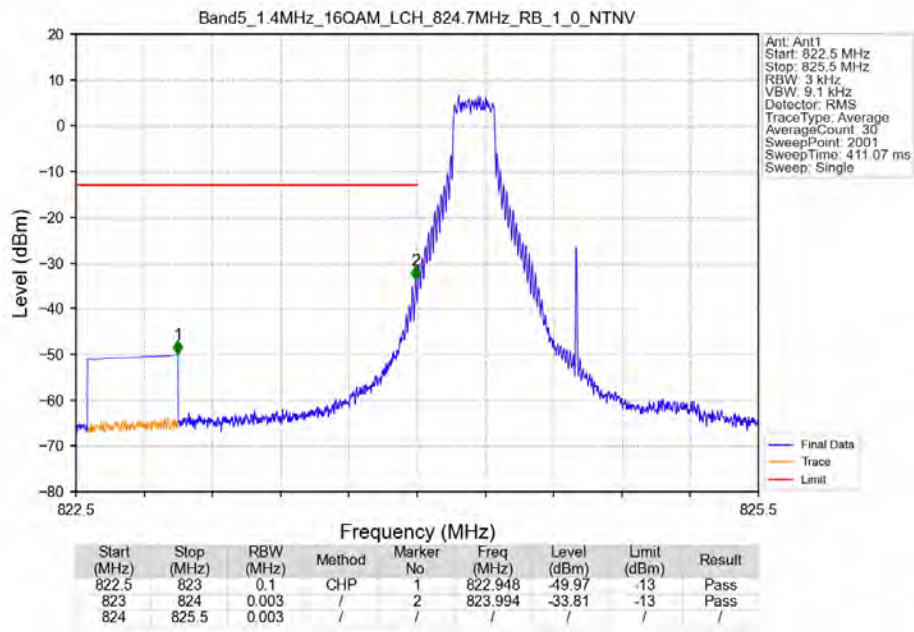
Band5 1.4MHz QPSK HCH 848.3MHz RB 1_5 NTN



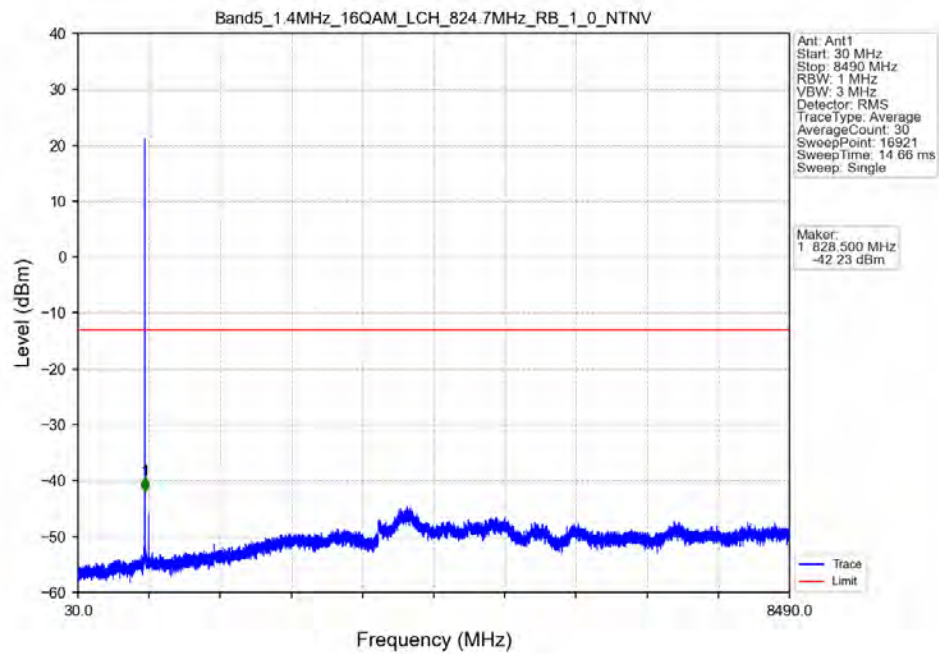
Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



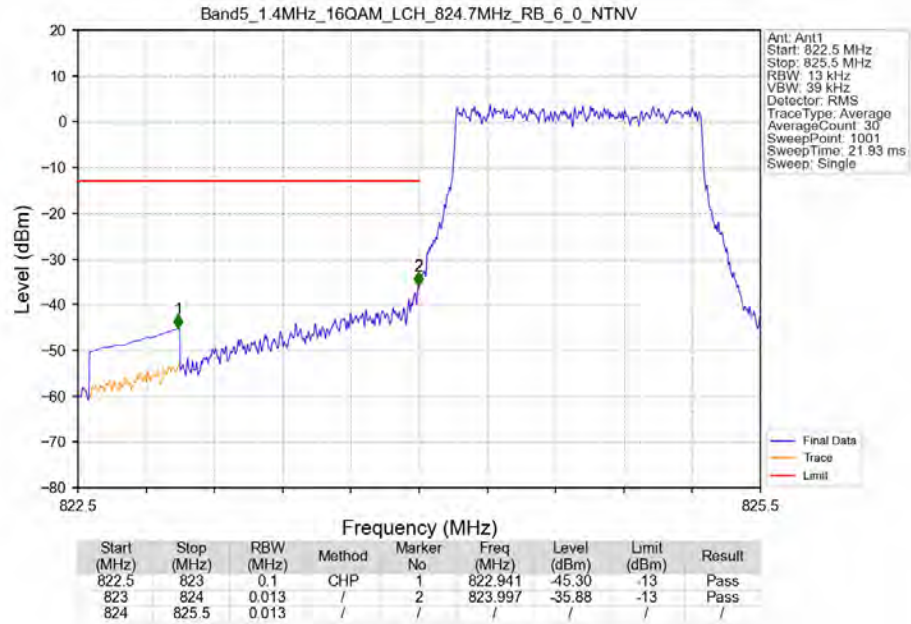
Band5 1.4MHz 16QAM LCH 824.7MHz RB 1_0 NTN



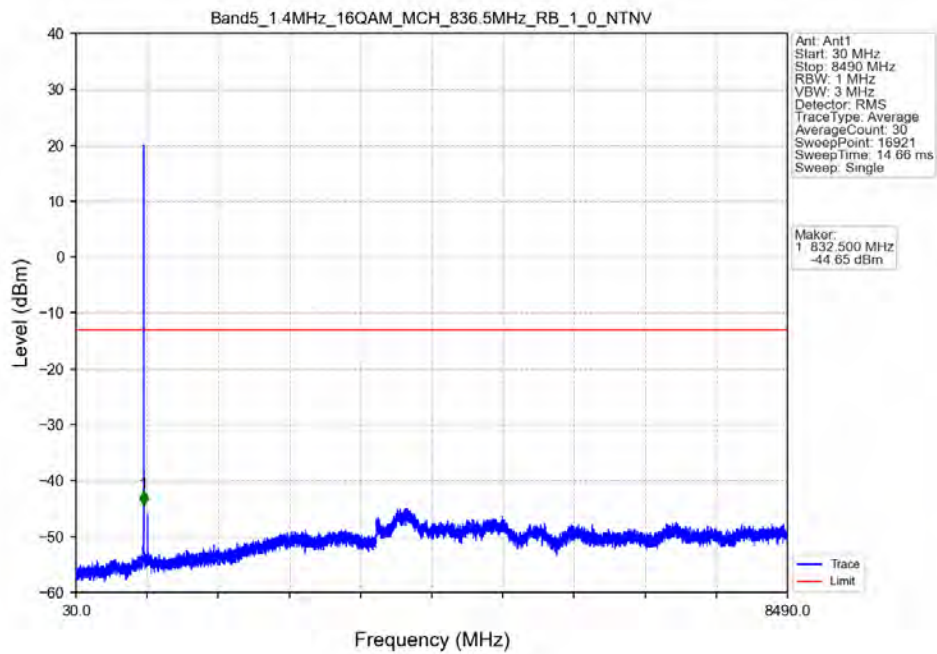
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV



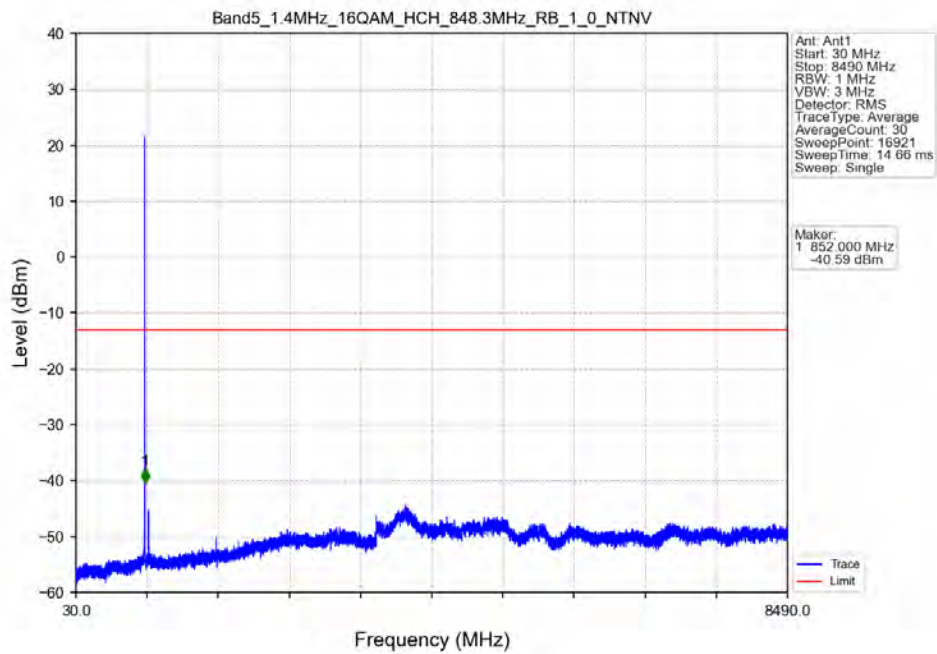
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



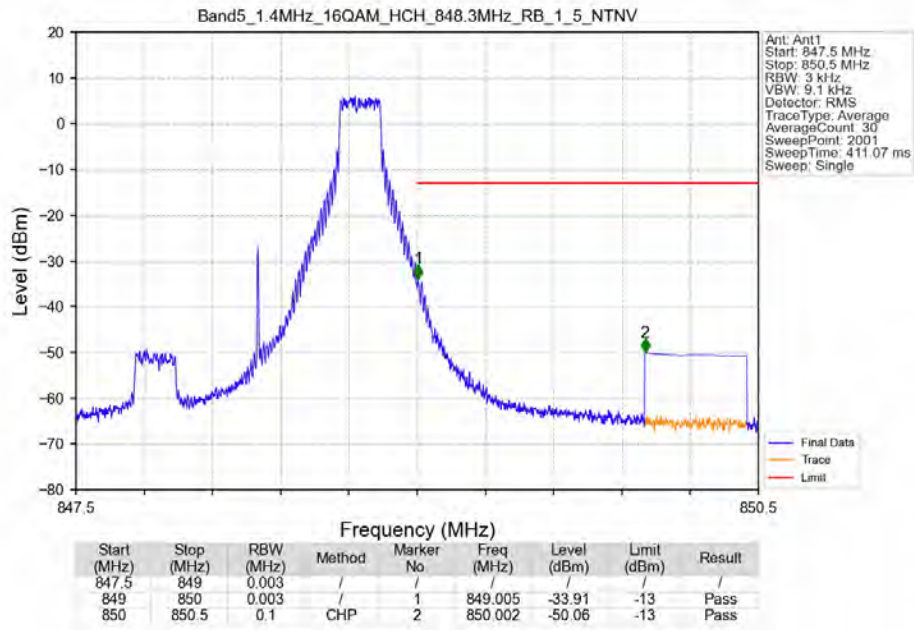
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



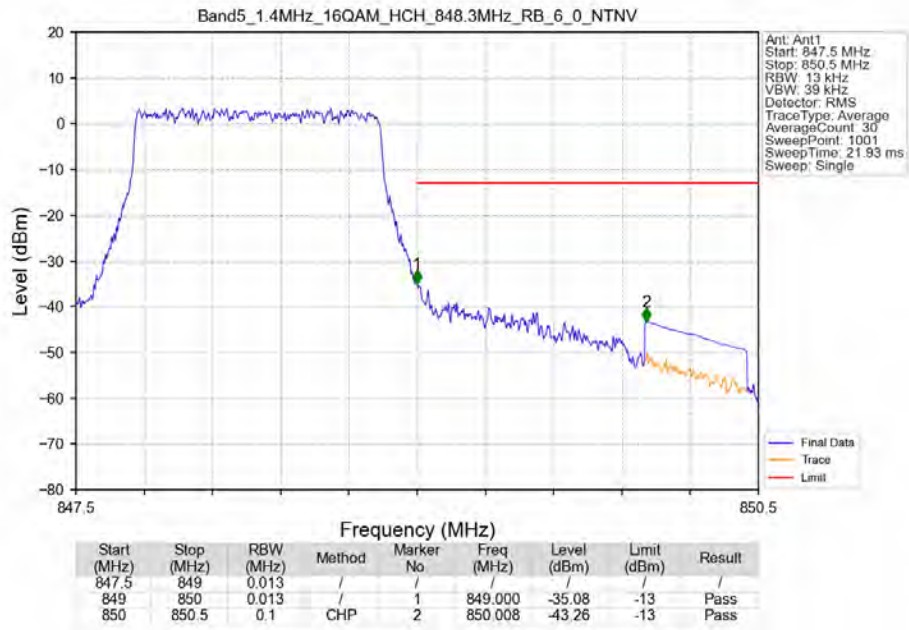
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV



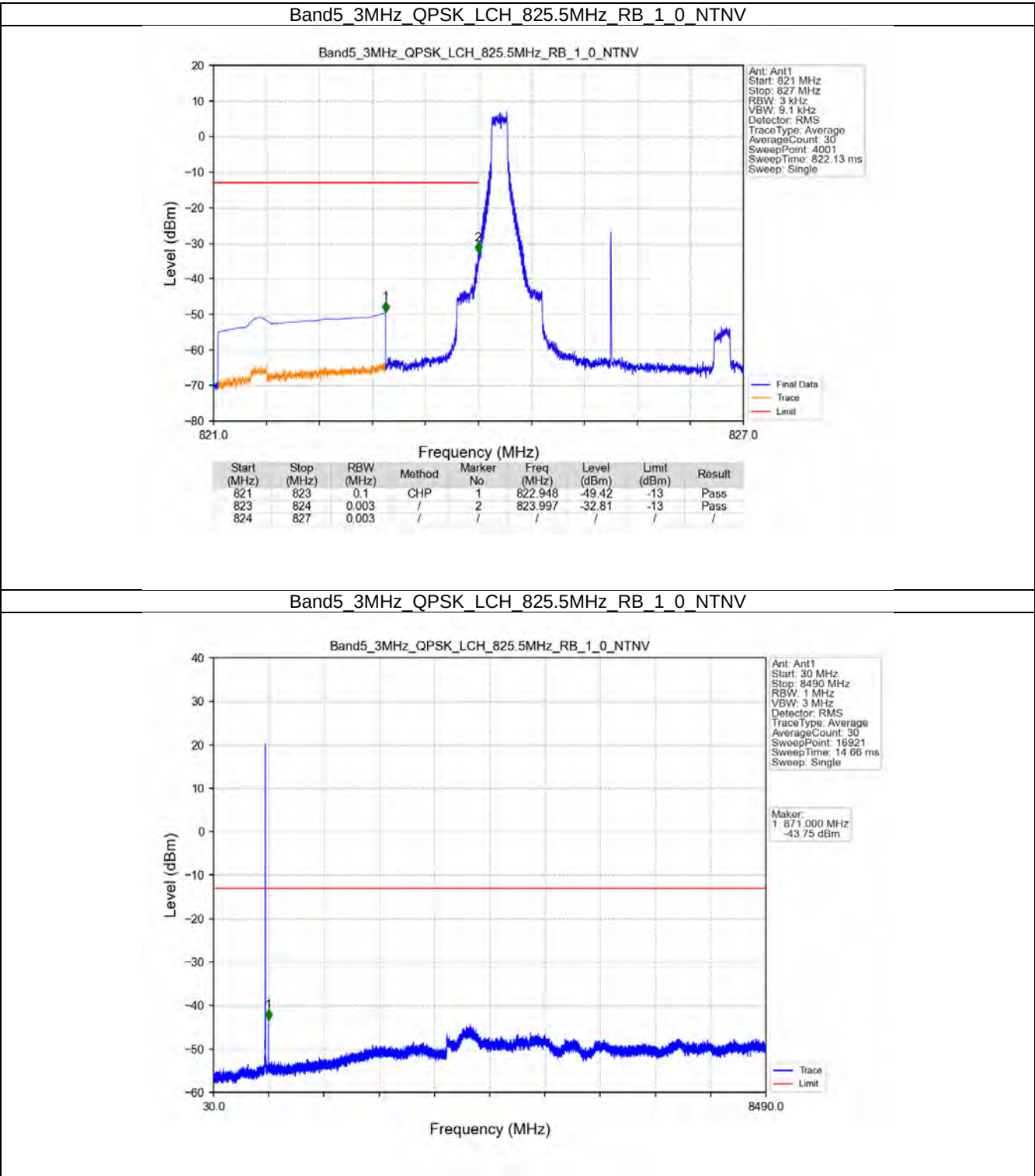
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



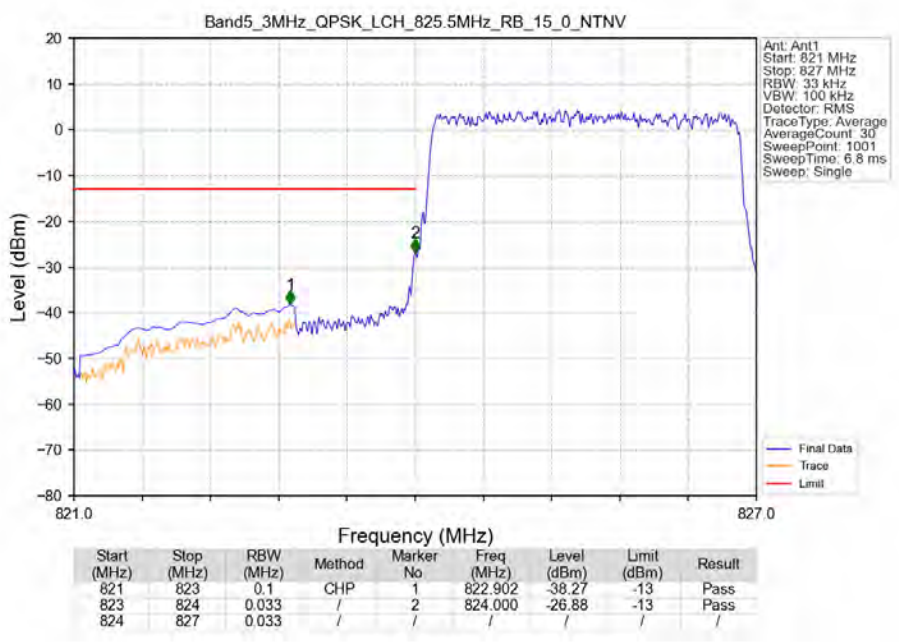
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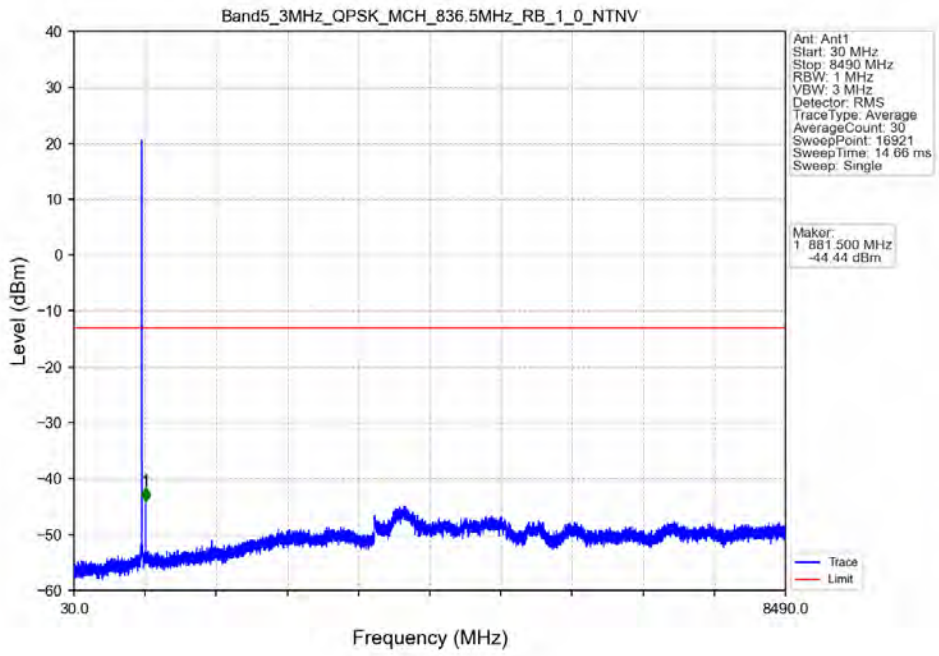
5.2.2 B5_3MHz



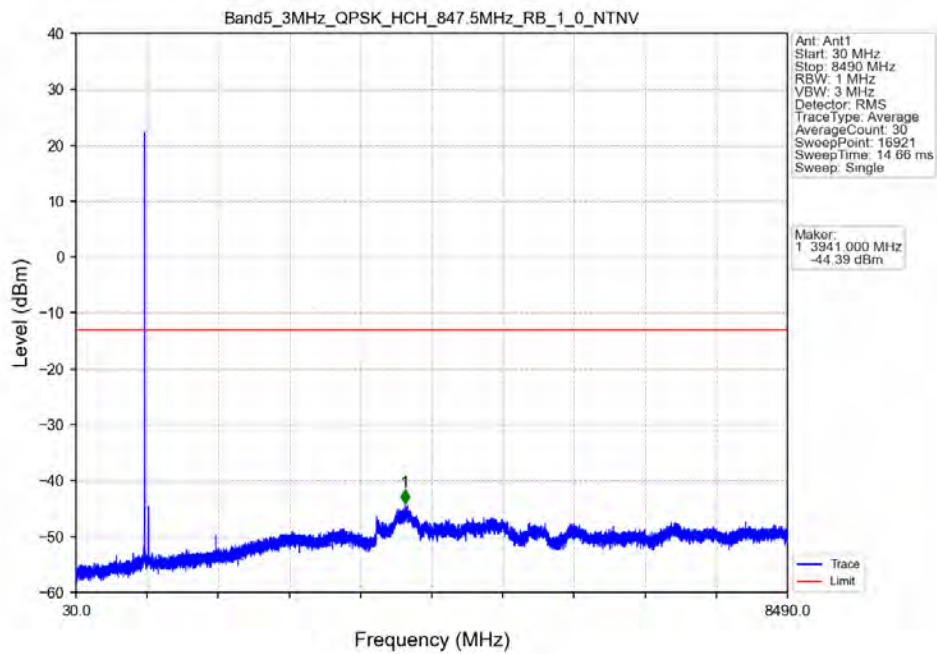
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



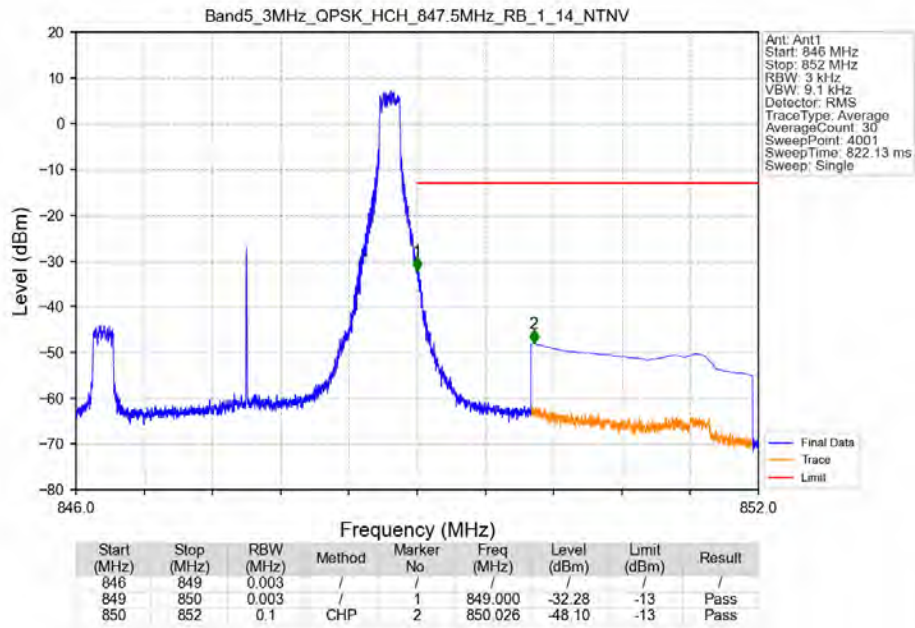
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



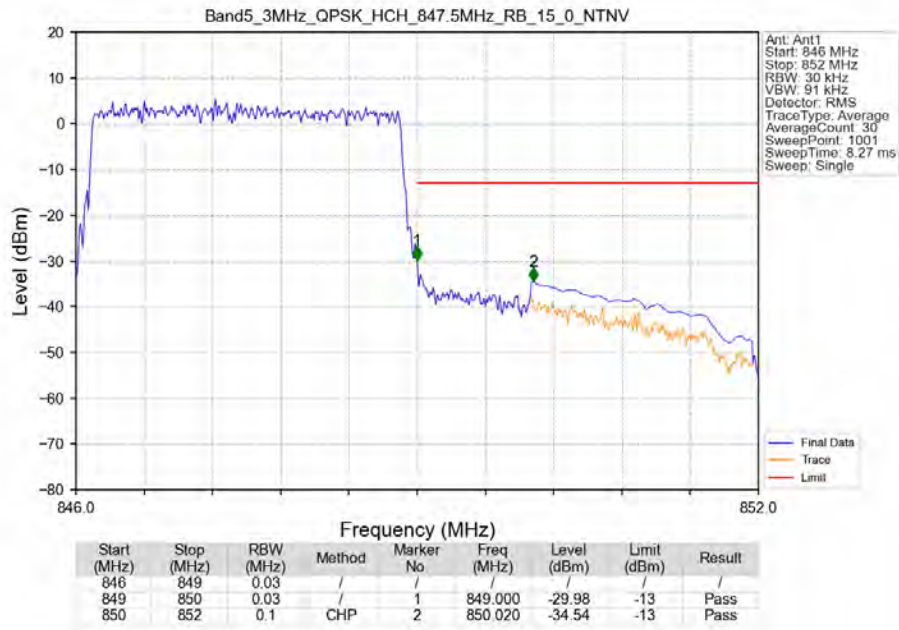
Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV



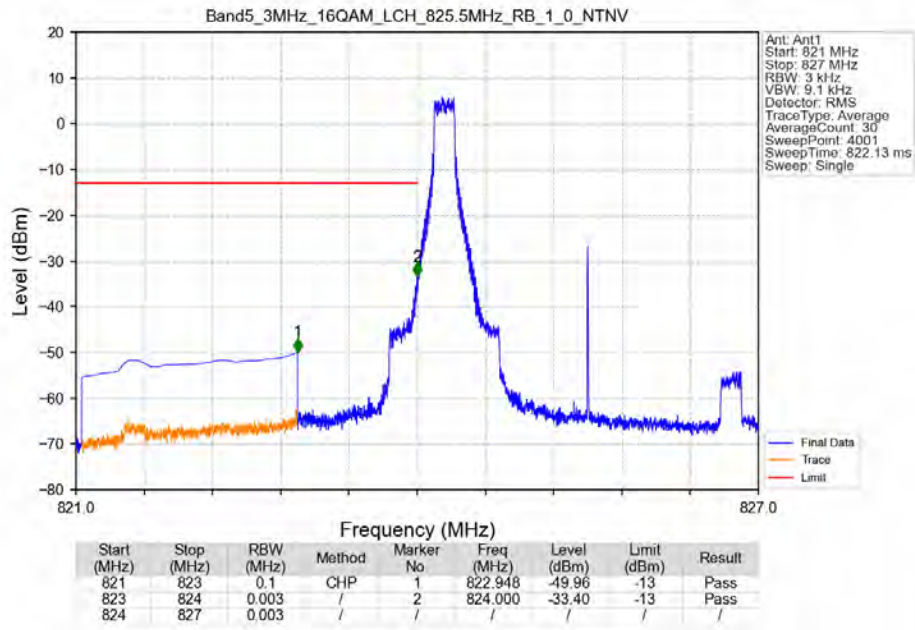
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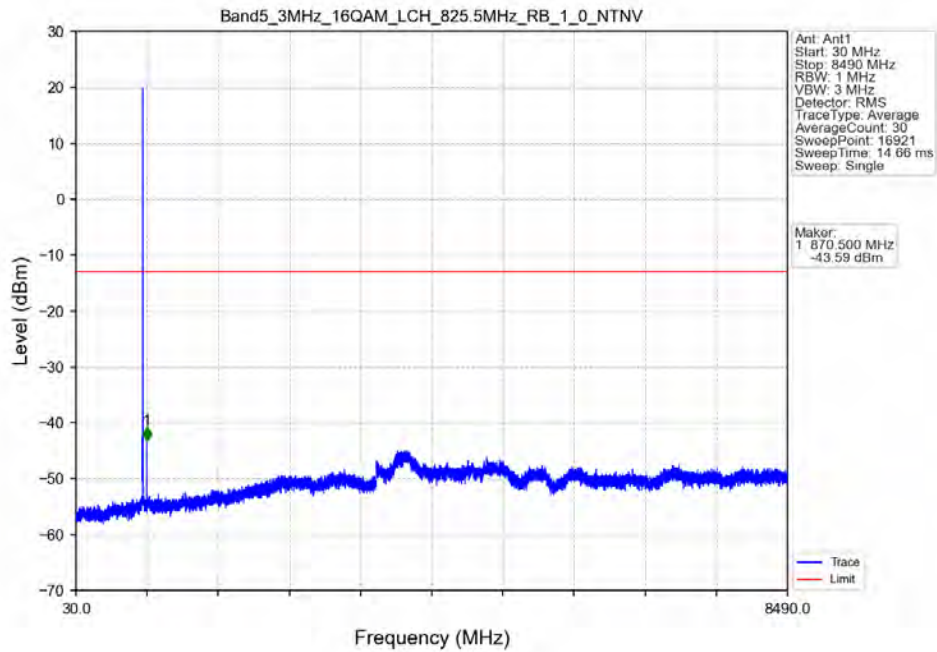
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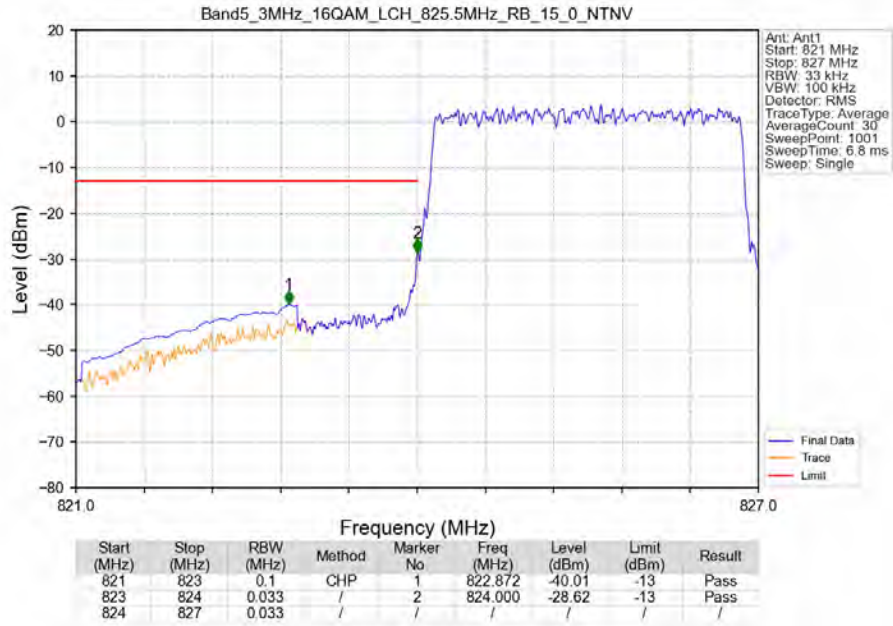
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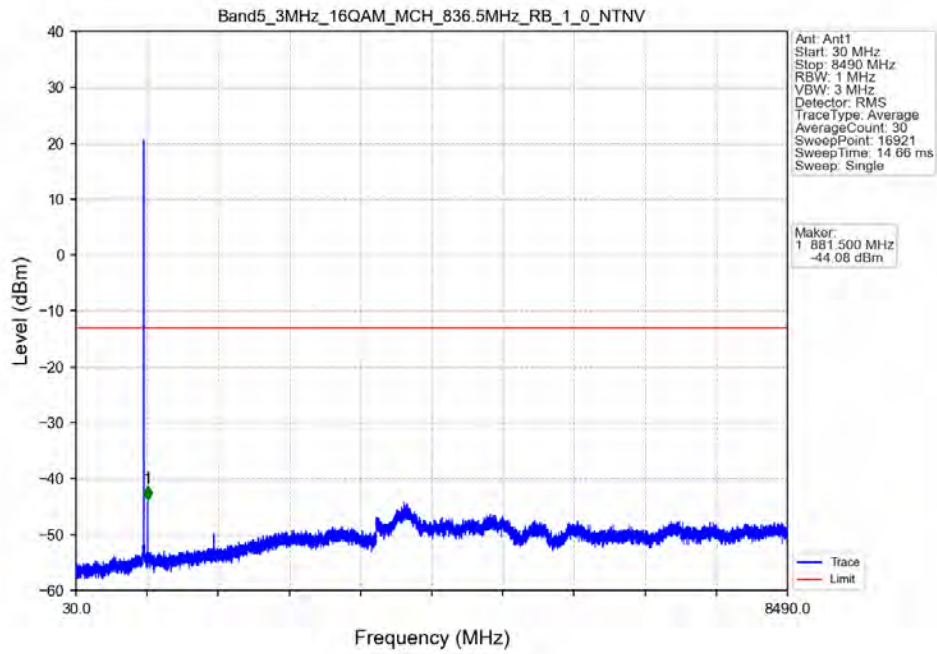
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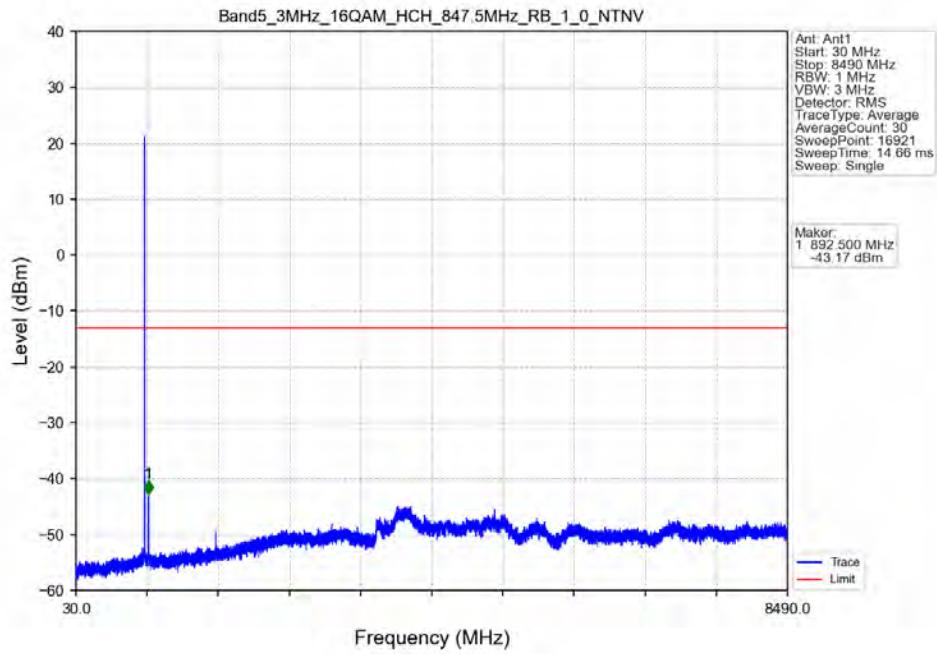
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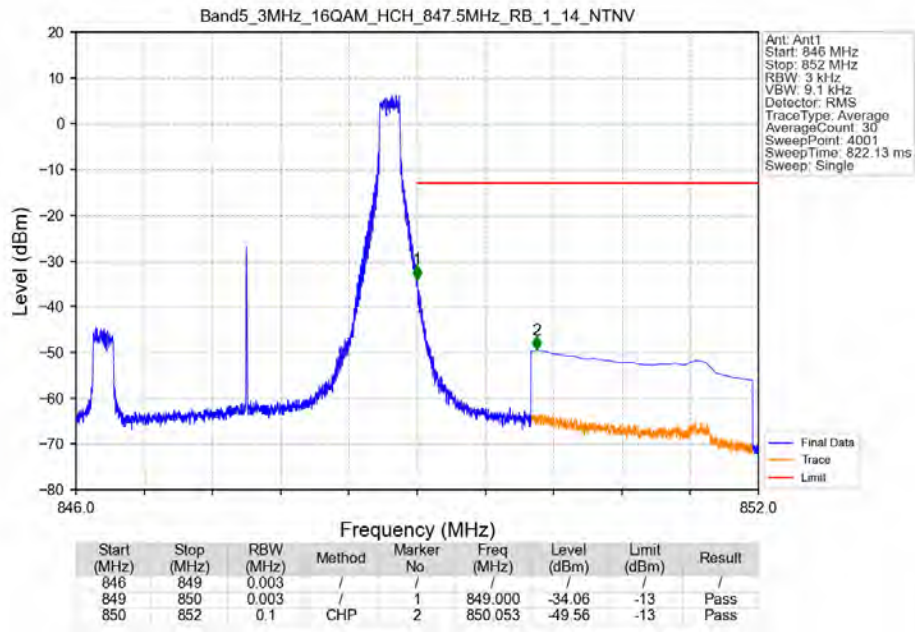
Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



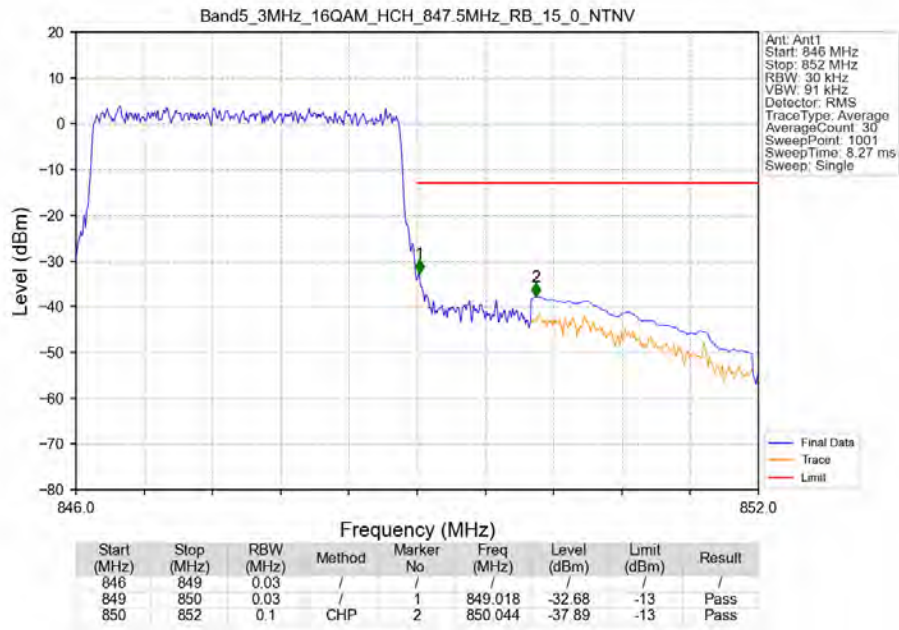
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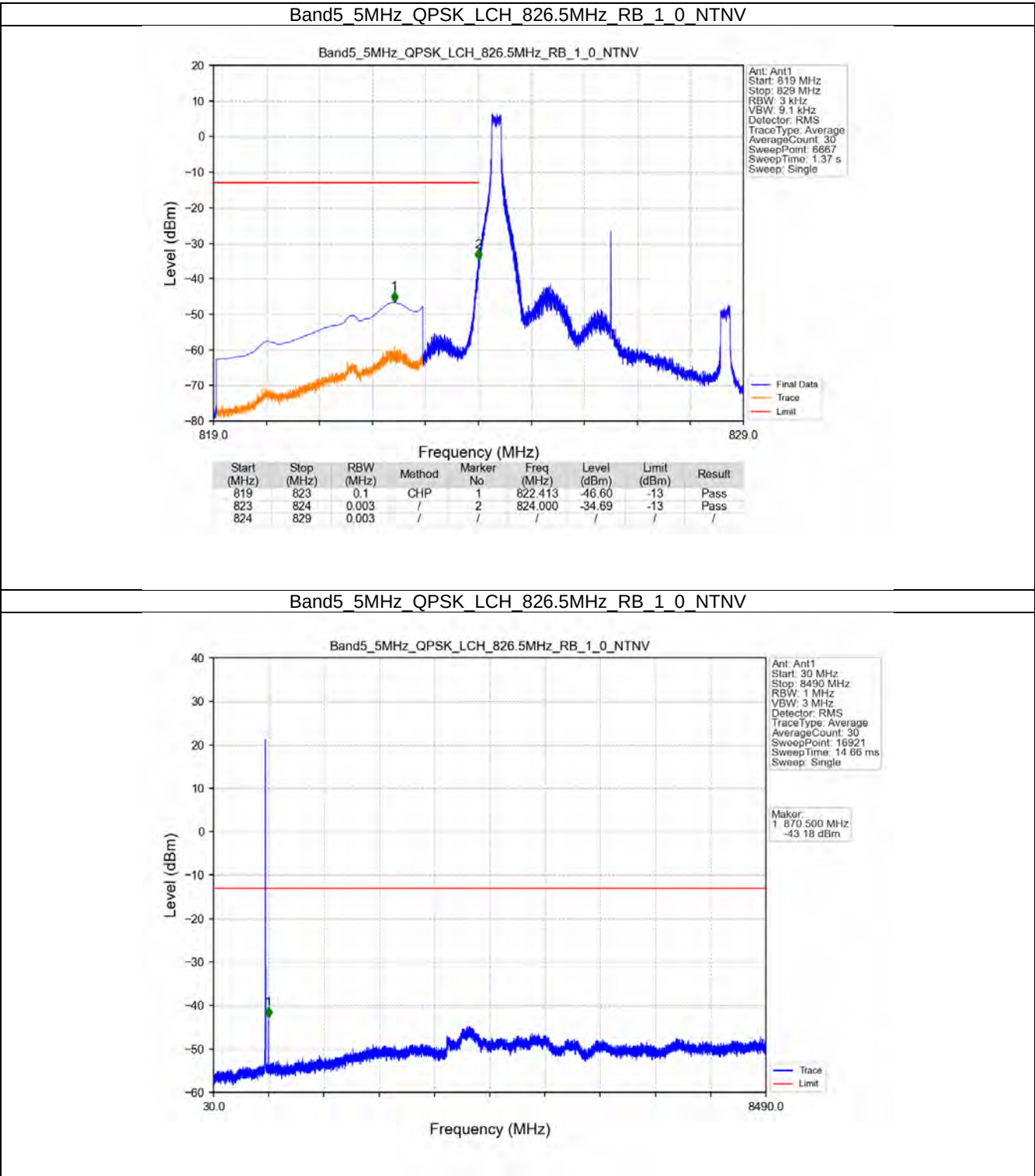
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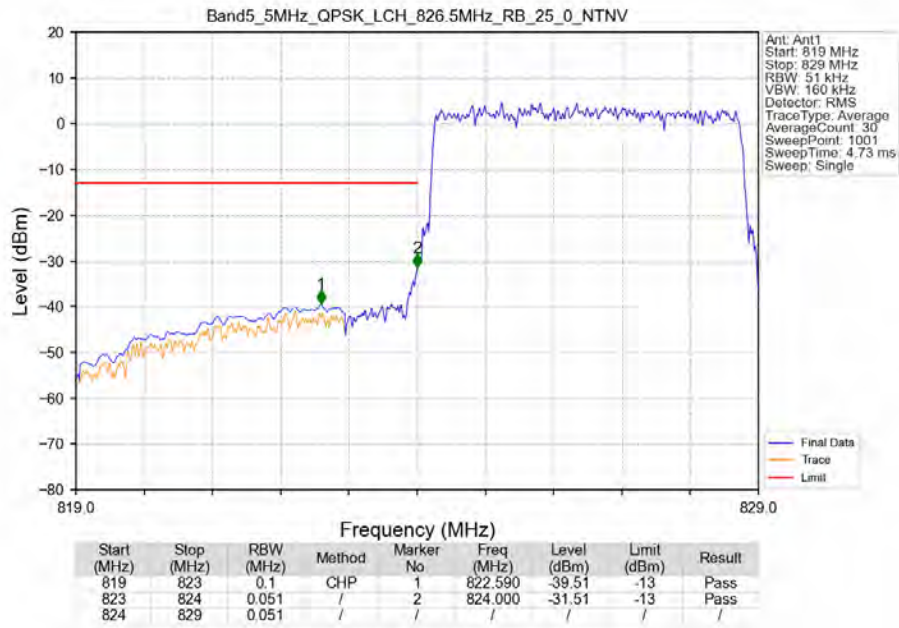
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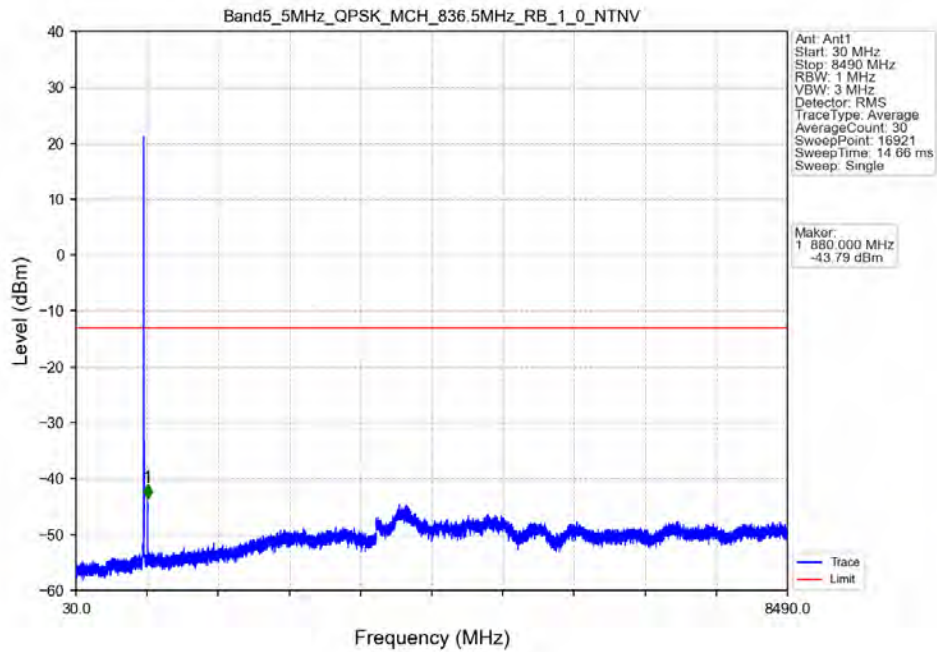
5.2.3 B5_5MHz



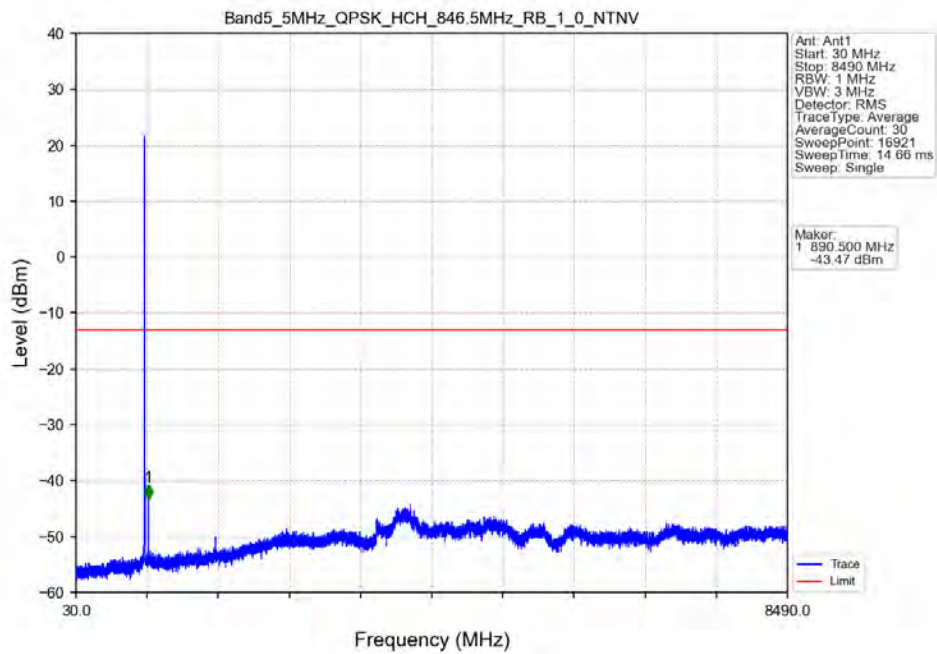
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



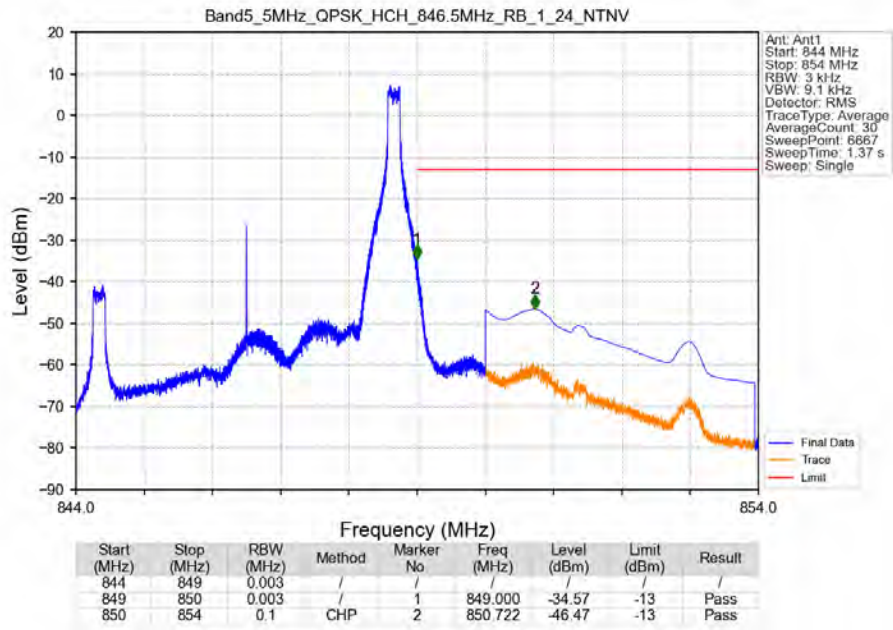
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



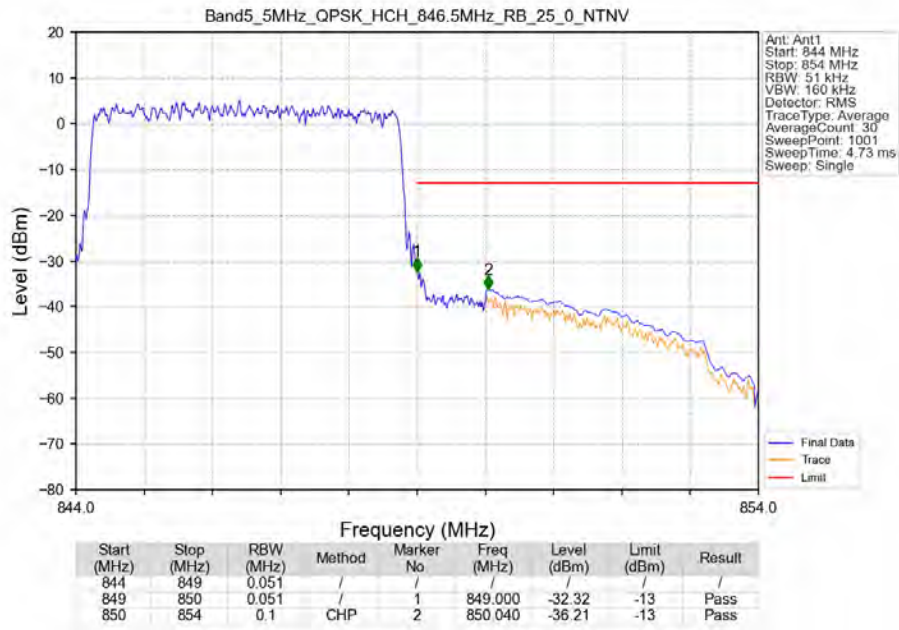
Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV



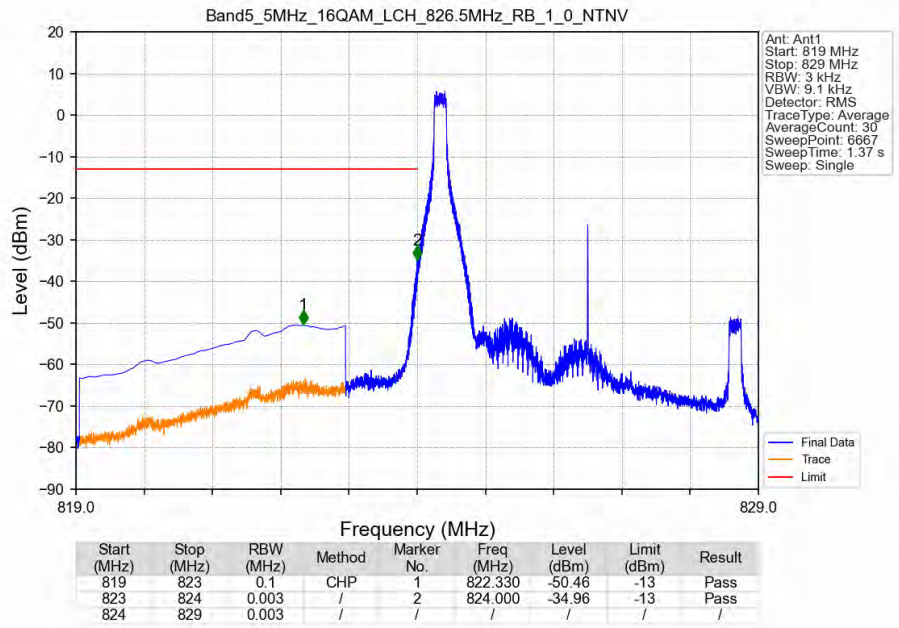
Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



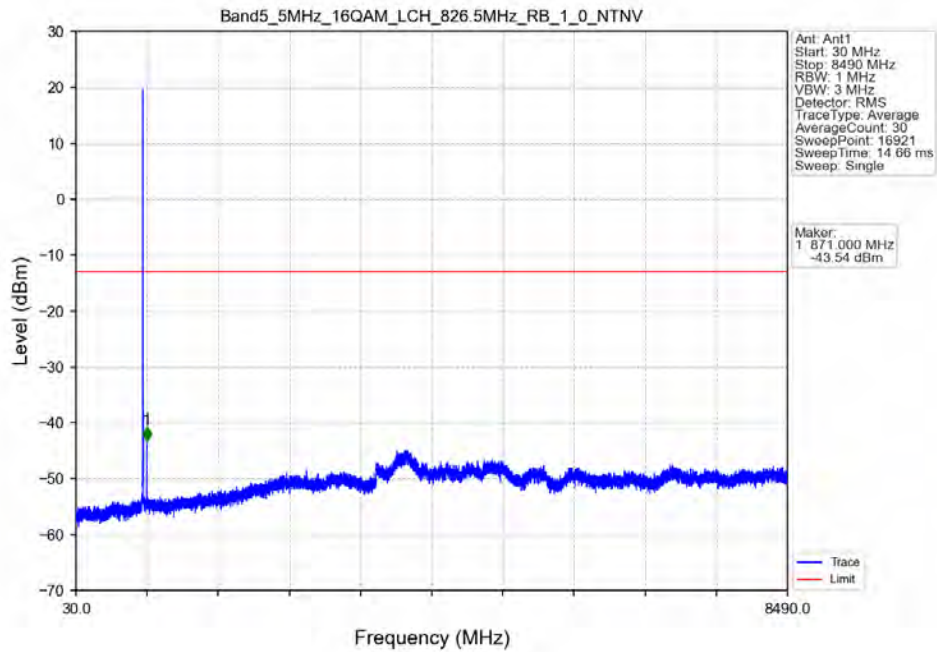
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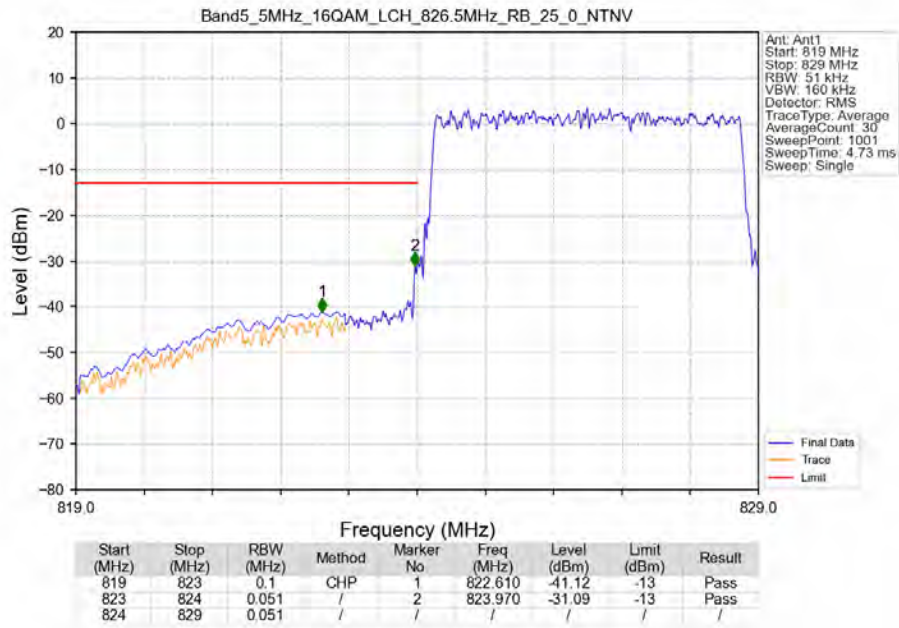
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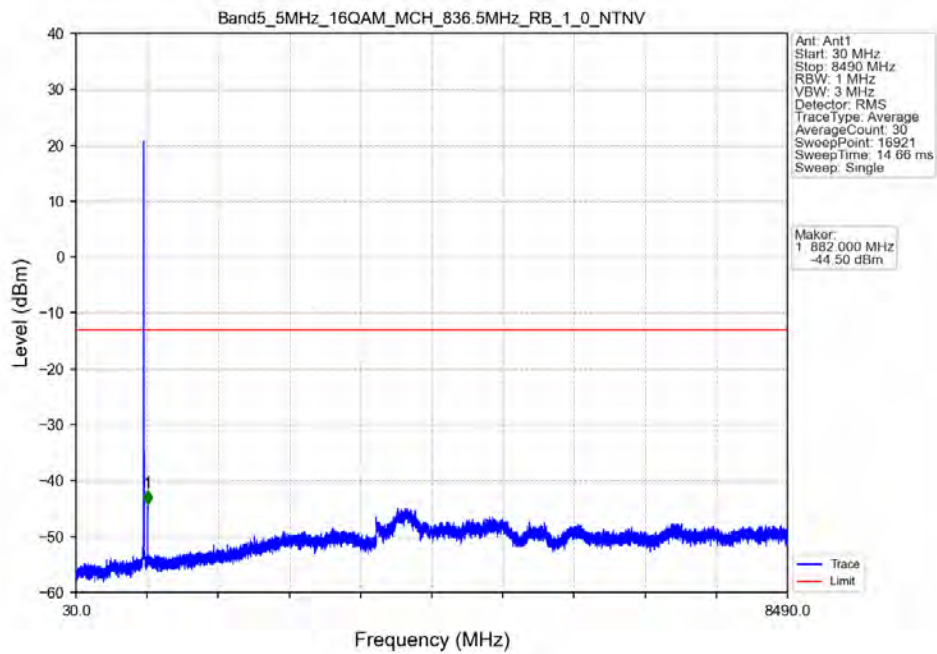
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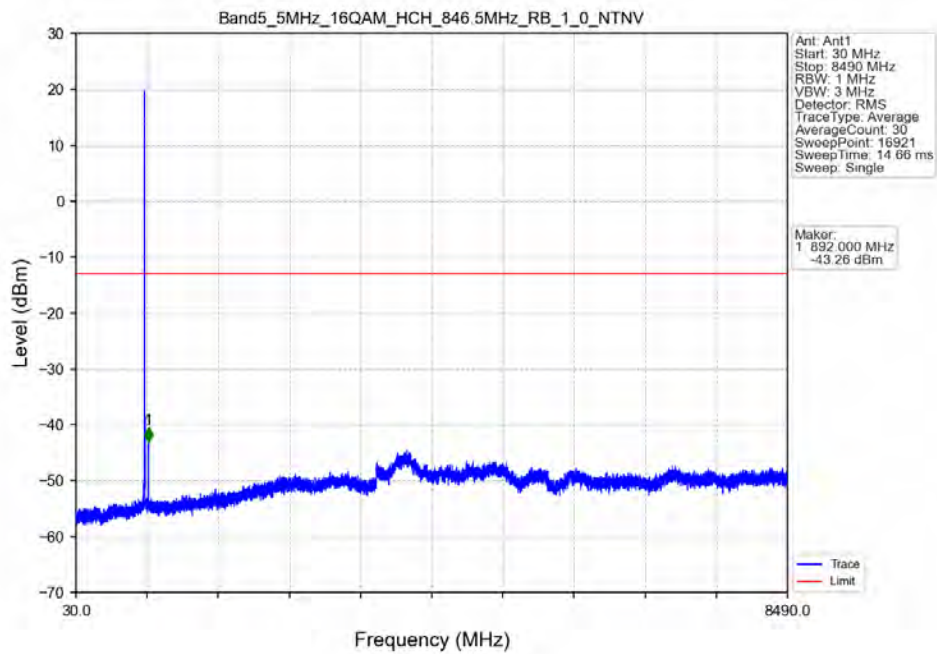
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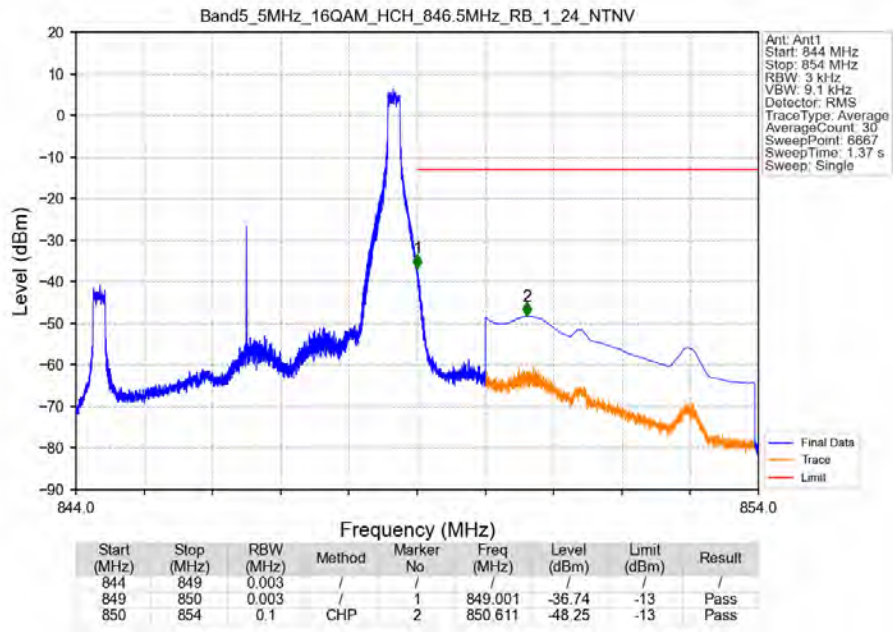
Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



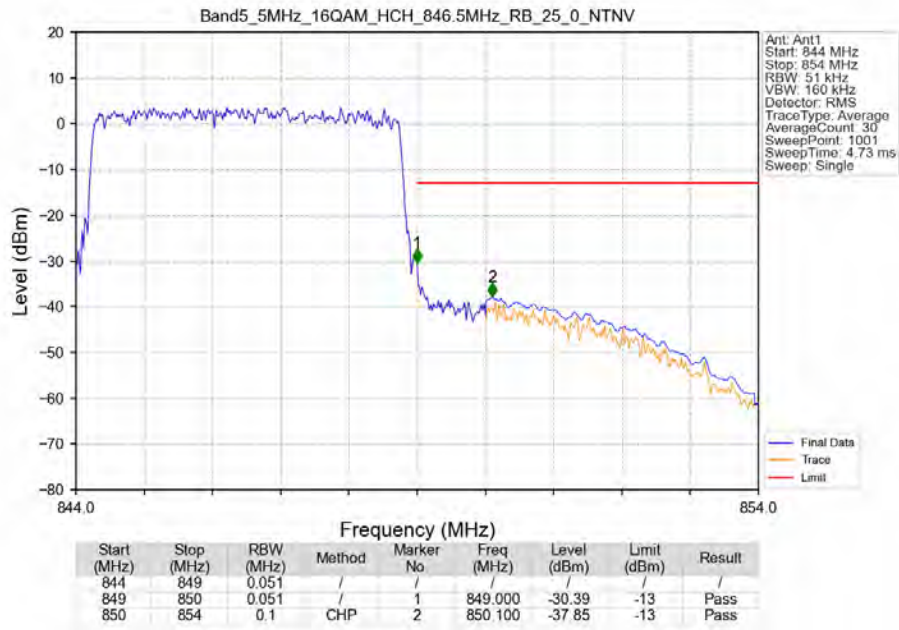
Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV

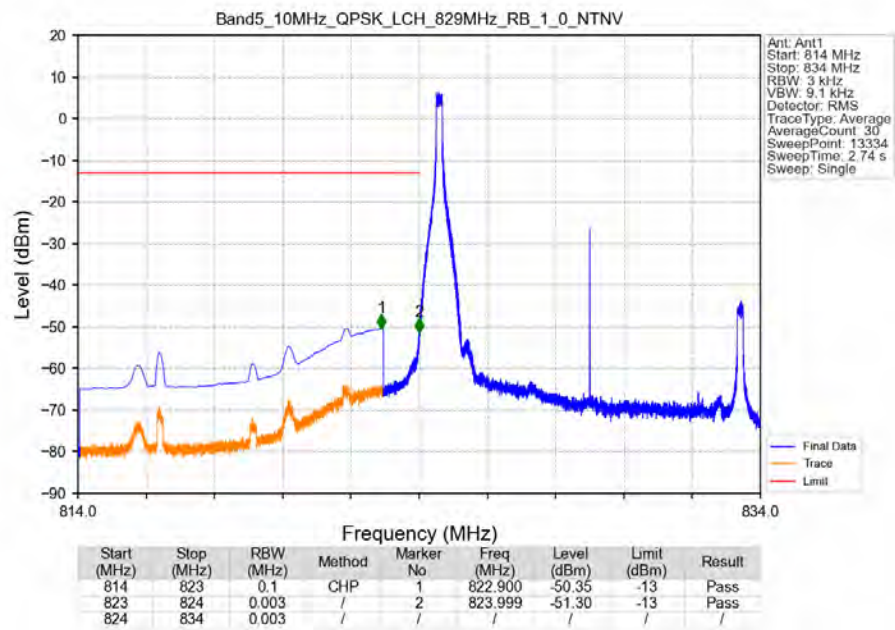


Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV

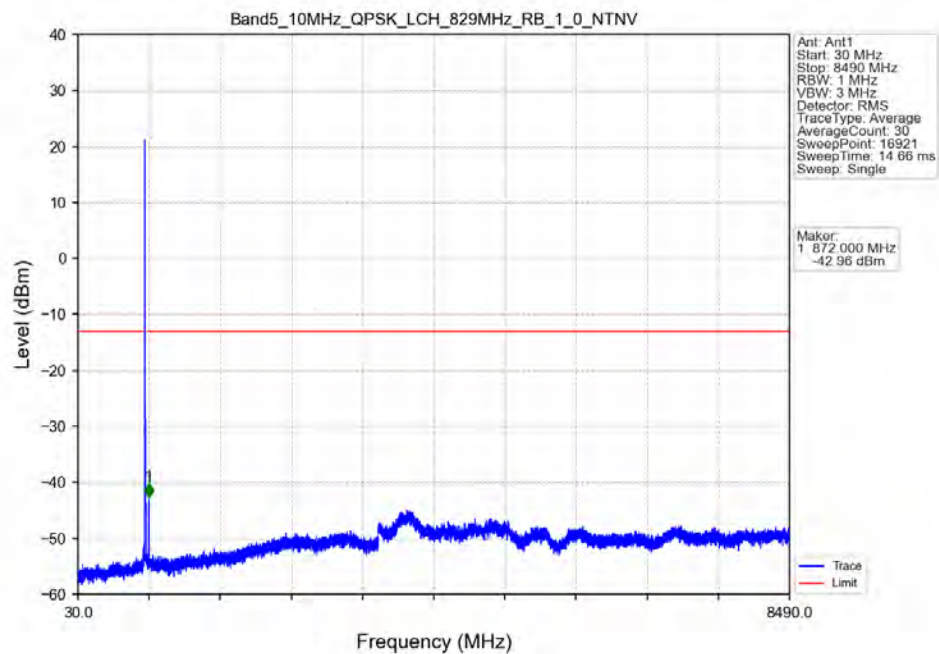


5.2.4 B5_10MHz

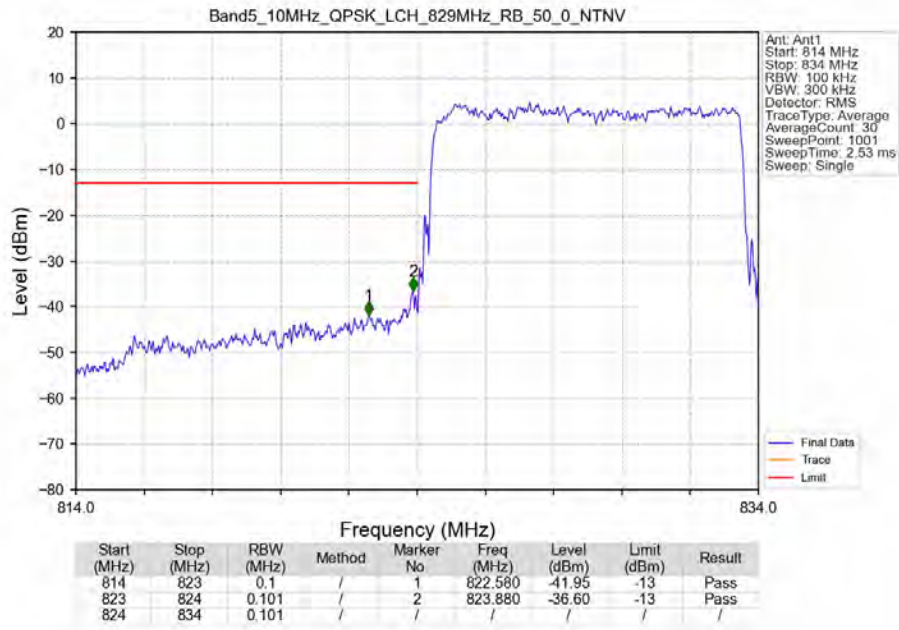
Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV



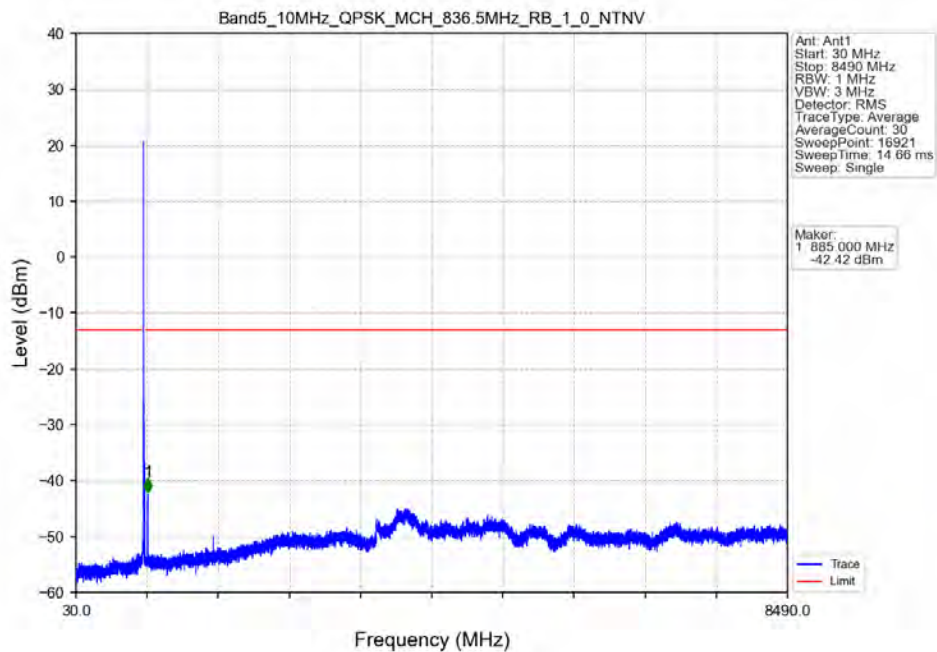
Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV



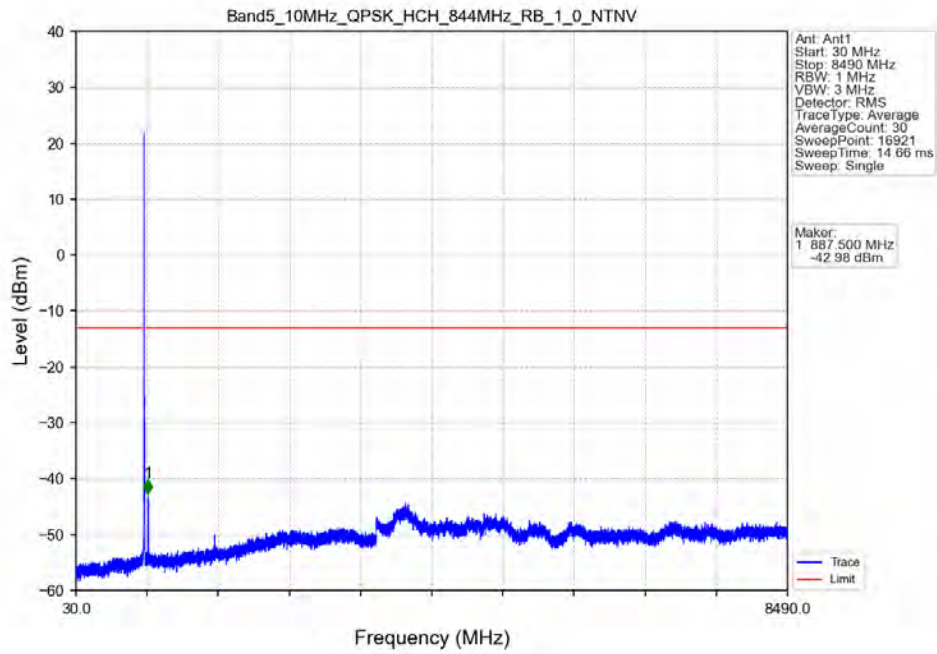
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



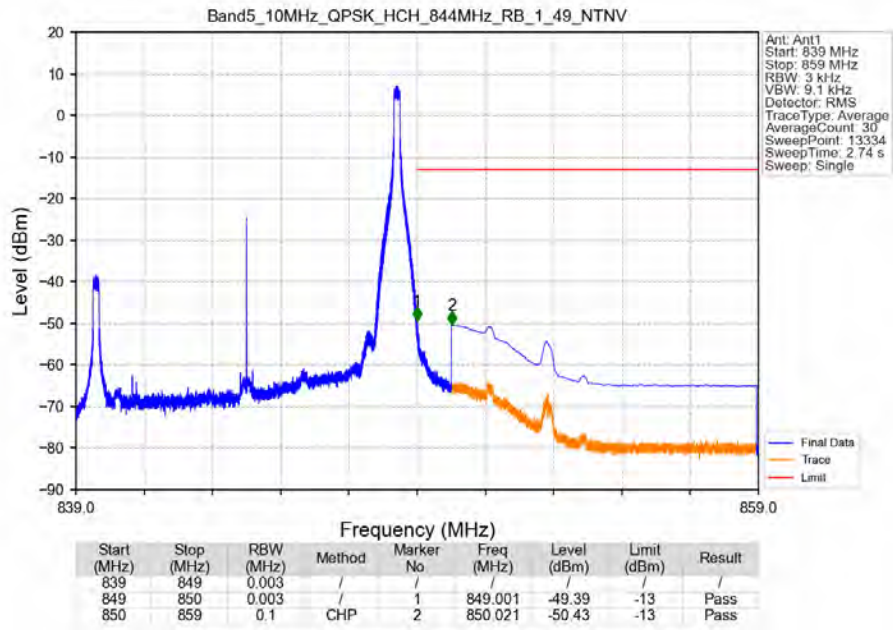
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



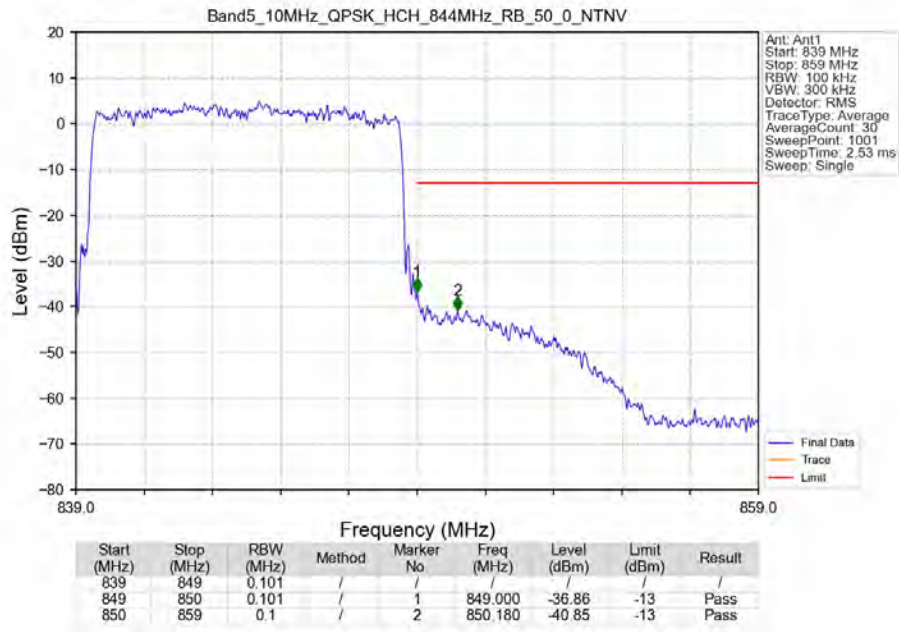
Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV



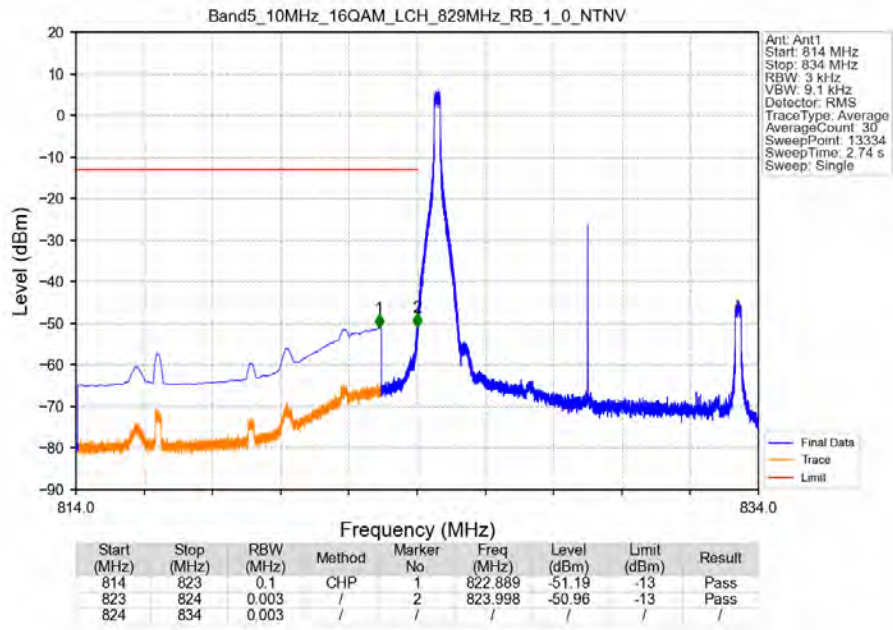
Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



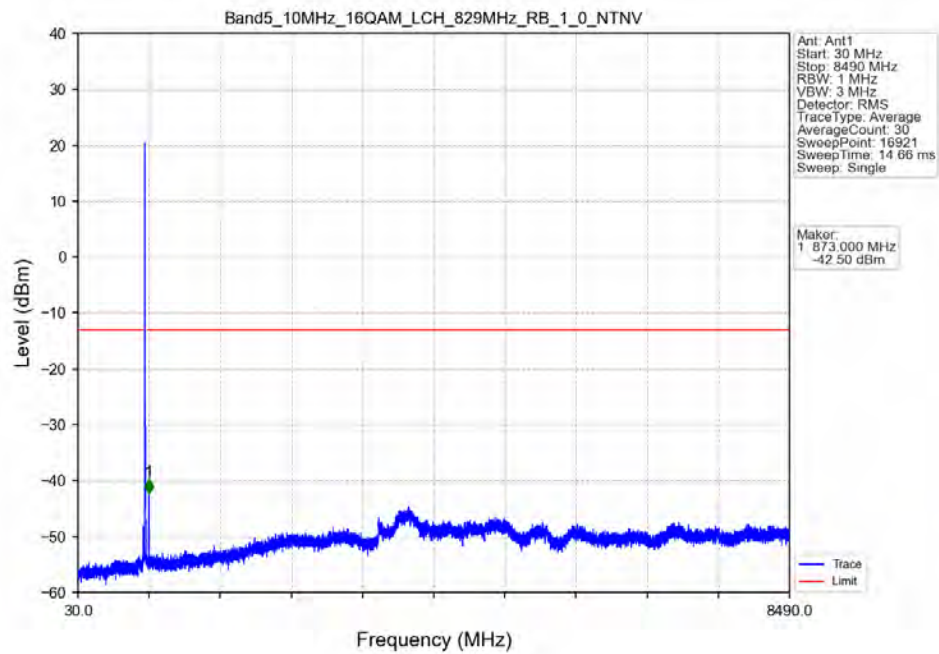
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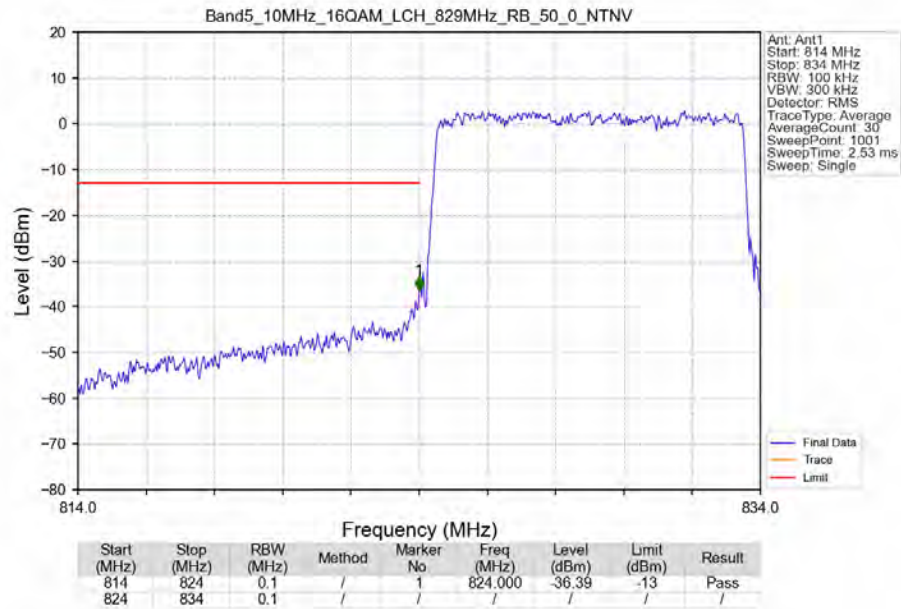
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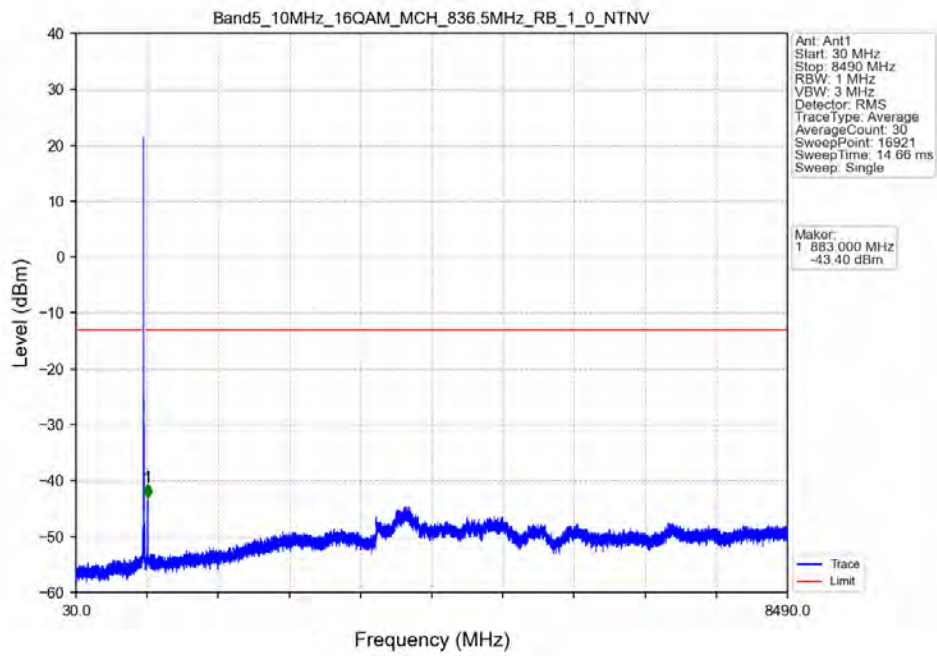
Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV



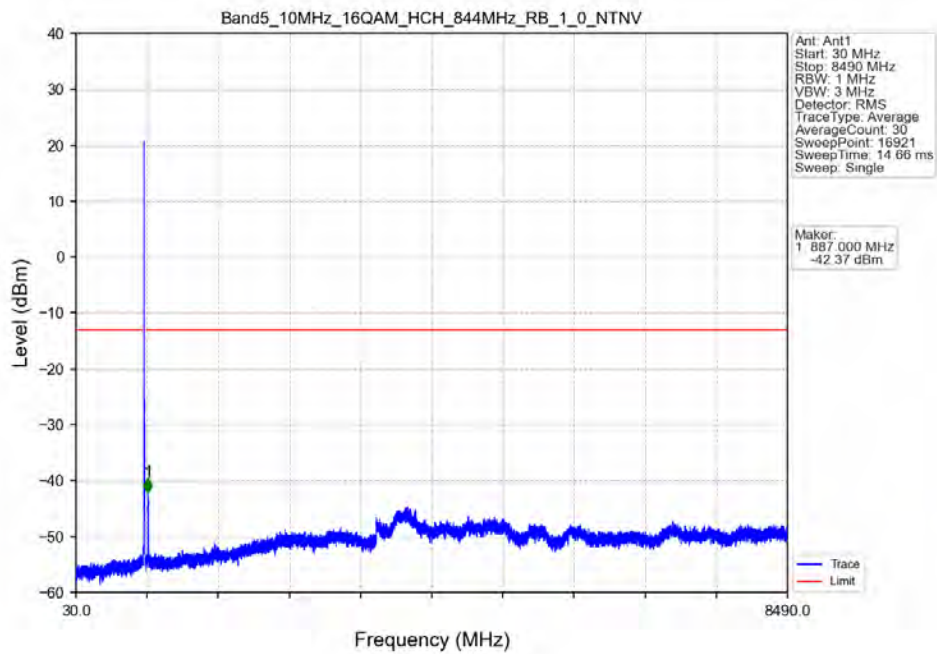
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



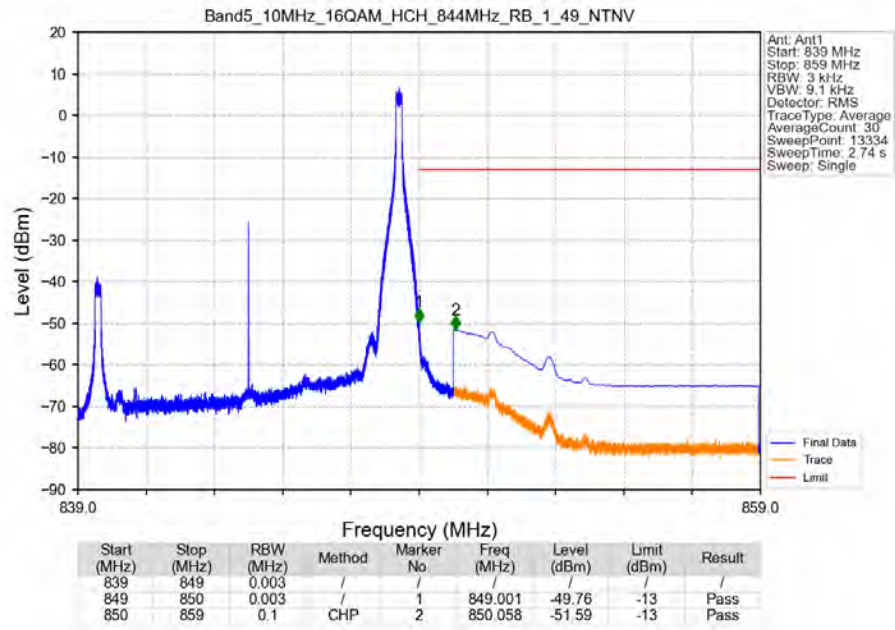
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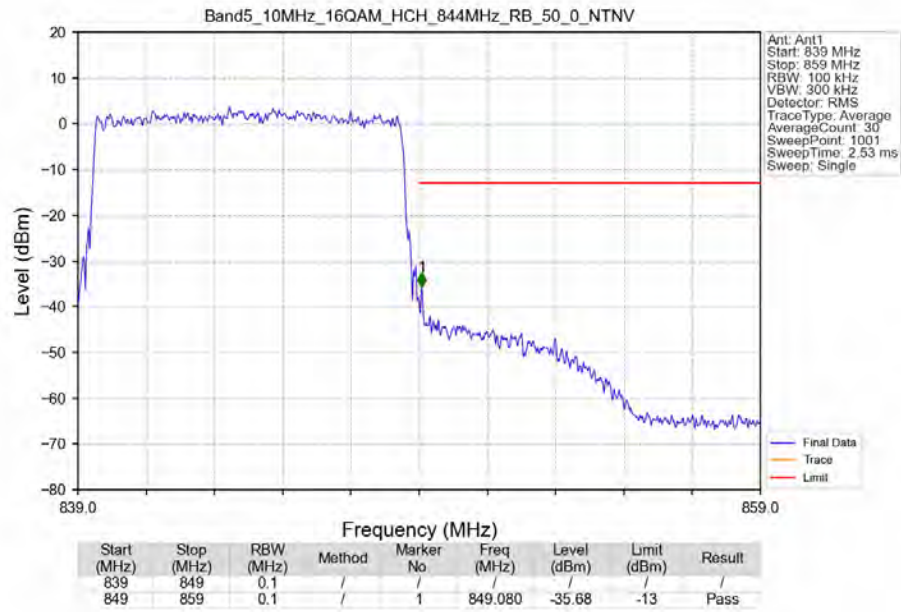
Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV



Band5 10MHz 16QAM HCH 844MHz RB 1 49 NTNV



Band5 10MHz 16QAM HCH 844MHz RB 50 0 NTNV



6. Field Strength of Spurious Radiation

LTE Band 5-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.0	-60.44	-13	-47.44	-63.32	2.62	5.5	Horizontal	Pass
2473.5	-54.06	-13	-41.06	-56.76	3.06	5.76	Horizontal	Pass
3298.0	-67.16	-13	-54.16	-71.52	3.3	7.66	Horizontal	Pass
1649.0	-67.94	-13	-54.94	-70.82	2.62	5.5	Vertical	Pass
2473.5	-59.84	-13	-46.84	-62.54	3.06	5.76	Vertical	Pass
3298.0	-67.48	-13	-54.48	-71.84	3.3	7.66	Vertical	Pass

LTE Band 5-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664.0	-52.87	-13	-39.87	-55.71	2.63	5.47	Horizontal	Pass
2496.0	-50.1	-13	-37.1	-52.83	3.08	5.81	Horizontal	Pass
3328.0	-67.21	-13	-54.21	-71.64	3.31	7.74	Horizontal	Pass
1664.0	-65.02	-13	-52.02	-67.86	2.63	5.47	Vertical	Pass
2496.0	-61.84	-13	-48.84	-64.57	3.08	5.81	Vertical	Pass
3328.0	-66.67	-13	-53.67	-71.1	3.31	7.74	Vertical	Pass

LTE Band 5-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679.0	-71.78	-13	-58.78	-74.58	2.63	5.43	Horizontal	Pass
2518.5	-66.99	-13	-53.99	-69.77	3.08	5.86	Horizontal	Pass
3358.0	-67.7	-13	-54.7	-72.19	3.33	7.82	Horizontal	Pass
1679.0	-66.69	-13	-53.69	-69.49	2.63	5.43	Vertical	Pass
2518.5	-67.04	-13	-54.04	-69.82	3.08	5.86	Vertical	Pass
3358.0	-67.26	-13	-54.26	-71.75	3.33	7.82	Vertical	Pass

---End of Attachment---