

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	22.62	2.72	23.19	<=38.45	Pass
			2	22.35	2.72	22.92	<=38.45	Pass
			5	22.28	2.72	22.85	<=38.45	Pass
		3	0	22.42	2.72	22.99	<=38.45	Pass
			2	22.44	2.72	23.01	<=38.45	Pass
			3	22.49	2.72	23.06	<=38.45	Pass
	6	0	21.48	2.72	22.05	<=38.45	Pass	
	836.5	1	0	23.49	2.72	24.06	<=38.45	Pass
			2	23.60	2.72	24.17	<=38.45	Pass
			5	23.51	2.72	24.08	<=38.45	Pass
		3	0	23.57	2.72	24.14	<=38.45	Pass
			2	23.75	2.72	24.32	<=38.45	Pass
			3	23.65	2.72	24.22	<=38.45	Pass
	6	0	22.65	2.72	23.22	<=38.45	Pass	
	848.3	1	0	23.43	2.72	24.00	<=38.45	Pass
			2	23.35	2.72	23.92	<=38.45	Pass
			5	23.35	2.72	23.92	<=38.45	Pass
		3	0	23.37	2.72	23.94	<=38.45	Pass
2			23.33	2.72	23.90	<=38.45	Pass	
3			23.24	2.72	23.81	<=38.45	Pass	
6	0	22.40	2.72	22.97	<=38.45	Pass		
16QAM	824.7	1	0	21.91	2.72	22.48	<=38.45	Pass
			2	22.01	2.72	22.58	<=38.45	Pass
			5	21.90	2.72	22.47	<=38.45	Pass
		3	0	21.70	2.72	22.27	<=38.45	Pass
			2	21.03	2.72	21.60	<=38.45	Pass
			3	21.09	2.72	21.66	<=38.45	Pass
	6	0	20.25	2.72	20.82	<=38.45	Pass	
	836.5	1	0	22.37	2.72	22.94	<=38.45	Pass
			2	22.66	2.72	23.23	<=38.45	Pass
			5	22.29	2.72	22.86	<=38.45	Pass
		3	0	22.75	2.72	23.32	<=38.45	Pass
			2	22.68	2.72	23.25	<=38.45	Pass
			3	22.89	2.72	23.46	<=38.45	Pass
	6	0	21.63	2.72	22.20	<=38.45	Pass	
	848.3	1	0	21.96	2.72	22.53	<=38.45	Pass
			2	22.68	2.72	23.25	<=38.45	Pass
			5	22.50	2.72	23.07	<=38.45	Pass
		3	0	22.29	2.72	22.86	<=38.45	Pass
2			22.29	2.72	22.86	<=38.45	Pass	
3			22.45	2.72	23.02	<=38.45	Pass	
6	0	21.42	2.72	21.99	<=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	22.54	2.72	23.11	<=38.45	Pass		
			7	22.42	2.72	22.99	<=38.45	Pass		
			14	22.40	2.72	22.97	<=38.45	Pass		
		8	0	21.49	2.72	22.06	<=38.45	Pass		
			4	21.33	2.72	21.90	<=38.45	Pass		
			7	21.36	2.72	21.93	<=38.45	Pass		
		15	0	21.53	2.72	22.10	<=38.45	Pass		
		836.5	1	0	23.69	2.72	24.26	<=38.45	Pass	
				7	23.88	2.72	24.45	<=38.45	Pass	
	14			23.24	2.72	23.81	<=38.45	Pass		
	8		0	22.88	2.72	23.45	<=38.45	Pass		
			4	22.70	2.72	23.27	<=38.45	Pass		
			7	22.62	2.72	23.19	<=38.45	Pass		
	15		0	22.61	2.72	23.18	<=38.45	Pass		
	847.5		1	0	22.68	2.72	23.25	<=38.45	Pass	
				7	23.10	2.72	23.67	<=38.45	Pass	
		14		23.21	2.72	23.78	<=38.45	Pass		
		8	0	21.95	2.72	22.52	<=38.45	Pass		
			4	22.10	2.72	22.67	<=38.45	Pass		
			7	22.28	2.72	22.85	<=38.45	Pass		
		15	0	22.14	2.72	22.71	<=38.45	Pass		
		16QAM	825.5	1	0	21.82	2.72	22.39	<=38.45	Pass
					7	21.66	2.72	22.23	<=38.45	Pass
	14				21.34	2.72	21.91	<=38.45	Pass	
8	0			20.57	2.72	21.14	<=38.45	Pass		
	4			20.42	2.72	20.99	<=38.45	Pass		
	7			20.49	2.72	21.06	<=38.45	Pass		
15	0			20.30	2.72	20.87	<=38.45	Pass		
836.5	1			0	23.29	2.72	23.86	<=38.45	Pass	
				7	23.65	2.72	24.22	<=38.45	Pass	
			14	23.26	2.72	23.83	<=38.45	Pass		
	8		0	21.55	2.72	22.12	<=38.45	Pass		
			4	21.39	2.72	21.96	<=38.45	Pass		
			7	21.56	2.72	22.13	<=38.45	Pass		
	15		0	21.55	2.72	22.12	<=38.45	Pass		
	847.5		1	0	21.45	2.72	22.02	<=38.45	Pass	
				7	21.97	2.72	22.54	<=38.45	Pass	
14				21.76	2.72	22.33	<=38.45	Pass		
8			0	21.04	2.72	21.61	<=38.45	Pass		
			4	21.21	2.72	21.78	<=38.45	Pass		
			7	21.23	2.72	21.80	<=38.45	Pass		
15			0	21.29	2.72	21.86	<=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	22.45	2.72	23.02	<=38.45	Pass
			13	22.28	2.72	22.85	<=38.45	Pass

16QAM	836.5	12	24	22.74	2.72	23.31	<=38.45	Pass	
			0	21.40	2.72	21.97	<=38.45	Pass	
			6	21.51	2.72	22.08	<=38.45	Pass	
		25	13	21.63	2.72	22.20	<=38.45	Pass	
			0	21.45	2.72	22.02	<=38.45	Pass	
			1	23.63	2.72	24.20	<=38.45	Pass	
		12	13	23.53	2.72	24.10	<=38.45	Pass	
			24	23.15	2.72	23.72	<=38.45	Pass	
			0	22.80	2.72	23.37	<=38.45	Pass	
	6		22.70	2.72	23.27	<=38.45	Pass		
	13		22.48	2.72	23.05	<=38.45	Pass		
	25		0	22.57	2.72	23.14	<=38.45	Pass	
	846.5	1	0	22.37	2.72	22.94	<=38.45	Pass	
			13	22.91	2.72	23.48	<=38.45	Pass	
			24	23.19	2.72	23.76	<=38.45	Pass	
		12	0	21.65	2.72	22.22	<=38.45	Pass	
			6	21.75	2.72	22.32	<=38.45	Pass	
			13	22.19	2.72	22.76	<=38.45	Pass	
		25	0	21.92	2.72	22.49	<=38.45	Pass	
		826.5	1	0	20.79	2.72	21.36	<=38.45	Pass
				13	21.26	2.72	21.83	<=38.45	Pass
	24			21.00	2.72	21.57	<=38.45	Pass	
	0			20.21	2.72	20.78	<=38.45	Pass	
	6			20.43	2.72	21.00	<=38.45	Pass	
13	20.44			2.72	21.01	<=38.45	Pass		
12	0		20.50	2.72	21.07	<=38.45	Pass		
	1		23.10	2.72	23.67	<=38.45	Pass		
	13		23.23	2.72	23.80	<=38.45	Pass		
836.5	1		24	22.72	2.72	23.29	<=38.45	Pass	
			0	21.54	2.72	22.11	<=38.45	Pass	
			6	21.58	2.72	22.15	<=38.45	Pass	
	12		13	21.25	2.72	21.82	<=38.45	Pass	
			25	0	21.53	2.72	22.10	<=38.45	Pass
			1	0	21.15	2.72	21.72	<=38.45	Pass
846.5	1	13	21.52	2.72	22.09	<=38.45	Pass		
		24	21.94	2.72	22.51	<=38.45	Pass		
		0	20.60	2.72	21.17	<=38.45	Pass		
	12	6	20.81	2.72	21.38	<=38.45	Pass		
		13	20.92	2.72	21.49	<=38.45	Pass		
		25	0	20.94	2.72	21.51	<=38.45	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	829	1	0	22.57	2.72	23.14	<=38.45	Pass	
			25	22.98	2.72	23.55	<=38.45	Pass	
			49	23.86	2.72	24.43	<=38.45	Pass	
		25	0	21.59	2.72	22.16	<=38.45	Pass	
			13	21.97	2.72	22.54	<=38.45	Pass	
			25	22.49	2.72	23.06	<=38.45	Pass	
		50	0	21.99	2.72	22.56	<=38.45	Pass	
		836.5	1	0	23.66	2.72	24.23	<=38.45	Pass
				25	24.13	2.72	24.70	<=38.45	Pass
	49			22.79	2.72	23.36	<=38.45	Pass	
	25		0	22.76	2.72	23.33	<=38.45	Pass	
			13	22.74	2.72	23.31	<=38.45	Pass	

	844	25	22.23	2.72	22.80	<=38.45	Pass		
		50	0	22.55	2.72	23.12	<=38.45	Pass	
		1	0	23.08	2.72	23.65	<=38.45	Pass	
			25	22.94	2.72	23.51	<=38.45	Pass	
			49	23.12	2.72	23.69	<=38.45	Pass	
		25	0	21.51	2.72	22.08	<=38.45	Pass	
			13	21.46	2.72	22.03	<=38.45	Pass	
			25	21.86	2.72	22.43	<=38.45	Pass	
		50	0	21.69	2.72	22.26	<=38.45	Pass	
		16QAM	829	1	0	21.76	2.72	22.33	<=38.45
25	21.87				2.72	22.44	<=38.45	Pass	
49	22.50				2.72	23.07	<=38.45	Pass	
25	0			20.67	2.72	21.24	<=38.45	Pass	
	13			20.84	2.72	21.41	<=38.45	Pass	
	25			21.51	2.72	22.08	<=38.45	Pass	
50	0			21.06	2.72	21.63	<=38.45	Pass	
836.5	1			0	23.30	2.72	23.87	<=38.45	Pass
				25	23.93	2.72	24.50	<=38.45	Pass
			49	22.20	2.72	22.77	<=38.45	Pass	
	25		0	21.70	2.72	22.27	<=38.45	Pass	
			13	21.77	2.72	22.34	<=38.45	Pass	
			25	21.45	2.72	22.02	<=38.45	Pass	
50	0		21.57	2.72	22.14	<=38.45	Pass		
844	1		0	21.88	2.72	22.45	<=38.45	Pass	
			25	21.56	2.72	22.13	<=38.45	Pass	
			49	21.74	2.72	22.31	<=38.45	Pass	
	25		0	20.56	2.72	21.13	<=38.45	Pass	
			13	20.64	2.72	21.21	<=38.45	Pass	
			25	20.82	2.72	21.39	<=38.45	Pass	
	50	0	20.65	2.72	21.22	<=38.45	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 Test Result

2.1.1 B5_1.4MHz

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	3.4	-1.536	-0.0019	-2.5 to 2.5	Pass	
					3.8	-1.851	-0.0022	-2.5 to 2.5	Pass	
					4.2	-1.496	-0.0018	-2.5 to 2.5	Pass	
				-30	3.8	-1.510	-0.0018	-2.5 to 2.5	Pass	
					-20	3.8	-1.402	-0.0017	-2.5 to 2.5	Pass
						3.8	-0.730	-0.0009	-2.5 to 2.5	Pass
				0	3.8	-2.215	-0.0027	-2.5 to 2.5	Pass	
					10	3.8	-0.994	-0.0012	-2.5 to 2.5	Pass
				30	3.8	-2.004	-0.0024	-2.5 to 2.5	Pass	
	40	3.8	-2.472	-0.0030	-2.5 to 2.5	Pass				
	50	3.8	-1.024	-0.0012	-2.5 to 2.5	Pass				
	836.5	6	0	20	3.4	-1.910	-0.0023	-2.5 to 2.5	Pass	
					3.8	-1.198	-0.0014	-2.5 to 2.5	Pass	
					4.2	-0.824	-0.0010	-2.5 to 2.5	Pass	
				-30	3.8	-0.685	-0.0008	-2.5 to 2.5	Pass	
					-20	3.8	-0.946	-0.0011	-2.5 to 2.5	Pass
						3.8	-1.658	-0.0020	-2.5 to 2.5	Pass
				0	3.8	-1.173	-0.0014	-2.5 to 2.5	Pass	
					10	3.8	-1.000	-0.0012	-2.5 to 2.5	Pass
				30	3.8	-0.959	-0.0011	-2.5 to 2.5	Pass	
	40	3.8	-0.932	-0.0011	-2.5 to 2.5	Pass				
	50	3.8	-1.582	-0.0019	-2.5 to 2.5	Pass				
	848.3	6	0	20	3.4	-0.277	-0.0003	-2.5 to 2.5	Pass	
					3.8	-0.326	-0.0004	-2.5 to 2.5	Pass	
					4.2	0.908	0.0011	-2.5 to 2.5	Pass	
				-30	3.8	-0.488	-0.0006	-2.5 to 2.5	Pass	
					-20	3.8	0.219	0.0003	-2.5 to 2.5	Pass
3.8						-0.667	-0.0008	-2.5 to 2.5	Pass	
0				3.8	-0.268	-0.0003	-2.5 to 2.5	Pass		
				10	3.8	0.081	0.0001	-2.5 to 2.5	Pass	
30				3.8	-0.779	-0.0009	-2.5 to 2.5	Pass		
40	3.8	-0.037	0.0000	-2.5 to 2.5	Pass					
50	3.8	0.116	0.0001	-2.5 to 2.5	Pass					
16QAM	824.7	6	0	20	3.4	-1.308	-0.0016	-2.5 to 2.5	Pass	
					3.8	-0.574	-0.0007	-2.5 to 2.5	Pass	
					4.2	-1.284	-0.0016	-2.5 to 2.5	Pass	
				-30	3.8	-1.204	-0.0015	-2.5 to 2.5	Pass	
					-20	3.8	-1.367	-0.0017	-2.5 to 2.5	Pass
						3.8	-0.985	-0.0012	-2.5 to 2.5	Pass
				0	3.8	-1.626	-0.0020	-2.5 to 2.5	Pass	
					10	3.8	-0.855	-0.0010	-2.5 to 2.5	Pass
				30	3.8	-1.637	-0.0020	-2.5 to 2.5	Pass	
	40	3.8	-1.036	-0.0013	-2.5 to 2.5	Pass				
	50	3.8	-1.497	-0.0018	-2.5 to 2.5	Pass				
	836.5	6	0	20	3.4	-0.531	-0.0006	-2.5 to 2.5	Pass	
					3.8	-0.085	-0.0001	-2.5 to 2.5	Pass	
					4.2	0.640	0.0008	-2.5 to 2.5	Pass	
				-30	3.8	-0.456	-0.0005	-2.5 to 2.5	Pass	

				-20	3.8	-0.773	-0.0009	-2.5 to 2.5	Pass
				-10	3.8	-0.719	-0.0009	-2.5 to 2.5	Pass
				0	3.8	-1.159	-0.0014	-2.5 to 2.5	Pass
				10	3.8	-0.420	-0.0005	-2.5 to 2.5	Pass
				30	3.8	-0.163	-0.0002	-2.5 to 2.5	Pass
				40	3.8	-0.476	-0.0006	-2.5 to 2.5	Pass
	50	3.8	0.476	0.0006	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.4	-0.899	-0.0011	-2.5 to 2.5	Pass
					3.8	-0.178	-0.0002	-2.5 to 2.5	Pass
					4.2	-0.537	-0.0006	-2.5 to 2.5	Pass
				-30	3.8	0.761	0.0009	-2.5 to 2.5	Pass
				-20	3.8	-0.441	-0.0005	-2.5 to 2.5	Pass
				-10	3.8	0.112	0.0001	-2.5 to 2.5	Pass
				0	3.8	-0.589	-0.0007	-2.5 to 2.5	Pass
				10	3.8	-0.914	-0.0011	-2.5 to 2.5	Pass
				30	3.8	-0.822	-0.0010	-2.5 to 2.5	Pass
				40	3.8	-0.580	-0.0007	-2.5 to 2.5	Pass
				50	3.8	-1.205	-0.0014	-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	3.4	-0.822	-0.0010	-2.5 to 2.5	Pass
					3.8	0.058	0.0001	-2.5 to 2.5	Pass
					4.2	-1.587	-0.0019	-2.5 to 2.5	Pass
				-30	3.8	-0.581	-0.0007	-2.5 to 2.5	Pass
				-20	3.8	0.688	0.0008	-2.5 to 2.5	Pass
				-10	3.8	0.439	0.0005	-2.5 to 2.5	Pass
				0	3.8	-0.125	-0.0002	-2.5 to 2.5	Pass
				10	3.8	-1.540	-0.0019	-2.5 to 2.5	Pass
				30	3.8	-1.574	-0.0019	-2.5 to 2.5	Pass
				40	3.8	0.327	0.0004	-2.5 to 2.5	Pass
				50	3.8	-0.624	-0.0008	-2.5 to 2.5	Pass
				836.5	15	0	20	3.4	-0.375
	3.8	-1.400	-0.0017					-2.5 to 2.5	Pass
	4.2	-1.255	-0.0015					-2.5 to 2.5	Pass
	-30	3.8	-0.540				-0.0006	-2.5 to 2.5	Pass
	-20	3.8	-1.755				-0.0021	-2.5 to 2.5	Pass
	-10	3.8	-1.042				-0.0012	-2.5 to 2.5	Pass
	0	3.8	-1.488				-0.0018	-2.5 to 2.5	Pass
	10	3.8	-0.898				-0.0011	-2.5 to 2.5	Pass
	30	3.8	-1.200				-0.0014	-2.5 to 2.5	Pass
	40	3.8	-0.798				-0.0010	-2.5 to 2.5	Pass
	50	3.8	-0.996				-0.0012	-2.5 to 2.5	Pass
	847.5	15	0				20	3.4	-2.950
				3.8	-2.105	-0.0025		-2.5 to 2.5	Pass
				4.2	-2.587	-0.0031		-2.5 to 2.5	Pass
				-30	3.8	-1.748	-0.0021	-2.5 to 2.5	Pass
				-20	3.8	-2.034	-0.0024	-2.5 to 2.5	Pass
				-10	3.8	-1.310	-0.0015	-2.5 to 2.5	Pass
				0	3.8	-1.670	-0.0020	-2.5 to 2.5	Pass
				10	3.8	-2.510	-0.0030	-2.5 to 2.5	Pass
30				3.8	-1.886	-0.0022	-2.5 to 2.5	Pass	
40				3.8	-2.269	-0.0027	-2.5 to 2.5	Pass	
50				3.8	-2.343	-0.0028	-2.5 to 2.5	Pass	
16QAM				825.5	15	0	20	3.4	0.170
	3.8	-0.557	-0.0007					-2.5 to 2.5	Pass

					4.2	-0.298	-0.0004	-2.5 to 2.5	Pass			
				-30	3.8	-0.237	-0.0003	-2.5 to 2.5	Pass			
				-20	3.8	-0.340	-0.0004	-2.5 to 2.5	Pass			
				-10	3.8	-0.497	-0.0006	-2.5 to 2.5	Pass			
				0	3.8	-0.189	-0.0002	-2.5 to 2.5	Pass			
				10	3.8	0.107	0.0001	-2.5 to 2.5	Pass			
				30	3.8	-0.875	-0.0011	-2.5 to 2.5	Pass			
				40	3.8	-0.235	-0.0003	-2.5 to 2.5	Pass			
				50	3.8	-1.176	-0.0014	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.4	-0.539	-0.0006	-2.5 to 2.5	Pass			
3.8					0.636	0.0008	-2.5 to 2.5	Pass				
4.2					-0.183	-0.0002	-2.5 to 2.5	Pass				
							-30	3.8	0.017	0.0000	-2.5 to 2.5	Pass
							-20	3.8	0.822	0.0010	-2.5 to 2.5	Pass
							-10	3.8	-0.718	-0.0009	-2.5 to 2.5	Pass
							0	3.8	-0.885	-0.0011	-2.5 to 2.5	Pass
							10	3.8	-1.271	-0.0015	-2.5 to 2.5	Pass
							30	3.8	-0.868	-0.0010	-2.5 to 2.5	Pass
							40	3.8	0.144	0.0002	-2.5 to 2.5	Pass
				50	3.8	-0.456	-0.0005	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.4	-2.590	-0.0031	-2.5 to 2.5	Pass			
3.8					-0.732	-0.0009	-2.5 to 2.5	Pass				
4.2					-2.615	-0.0031	-2.5 to 2.5	Pass				
							-30	3.8	-1.253	-0.0015	-2.5 to 2.5	Pass
							-20	3.8	-2.101	-0.0025	-2.5 to 2.5	Pass
							-10	3.8	-2.337	-0.0028	-2.5 to 2.5	Pass
							0	3.8	-2.290	-0.0027	-2.5 to 2.5	Pass
							10	3.8	-1.770	-0.0021	-2.5 to 2.5	Pass
							30	3.8	-1.205	-0.0014	-2.5 to 2.5	Pass
							40	3.8	-0.897	-0.0011	-2.5 to 2.5	Pass
				50	3.8	-2.221	-0.0026	-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	3.4	-2.043	-0.0025	-2.5 to 2.5	Pass				
					3.8	-1.538	-0.0019	-2.5 to 2.5	Pass				
					4.2	-0.109	-0.0001	-2.5 to 2.5	Pass				
								-30	3.8	-1.744	-0.0021	-2.5 to 2.5	Pass
								-20	3.8	-1.281	-0.0015	-2.5 to 2.5	Pass
								-10	3.8	-1.116	-0.0014	-2.5 to 2.5	Pass
								0	3.8	-0.937	-0.0011	-2.5 to 2.5	Pass
								10	3.8	-0.762	-0.0009	-2.5 to 2.5	Pass
								30	3.8	-2.533	-0.0031	-2.5 to 2.5	Pass
								40	3.8	-1.210	-0.0015	-2.5 to 2.5	Pass
					50	3.8	-1.069	-0.0013	-2.5 to 2.5	Pass			
		836.5	25	0	20	3.4	-1.031	-0.0012	-2.5 to 2.5	Pass			
	3.8					-1.868	-0.0022	-2.5 to 2.5	Pass				
	4.2					-1.845	-0.0022	-2.5 to 2.5	Pass				
								-30	3.8	-1.460	-0.0017	-2.5 to 2.5	Pass
								-20	3.8	-1.653	-0.0020	-2.5 to 2.5	Pass
								-10	3.8	-1.221	-0.0015	-2.5 to 2.5	Pass
								0	3.8	-1.107	-0.0013	-2.5 to 2.5	Pass
								10	3.8	-2.004	-0.0024	-2.5 to 2.5	Pass
								30	3.8	-1.050	-0.0013	-2.5 to 2.5	Pass
							40	3.8	-0.521	-0.0006	-2.5 to 2.5	Pass	
				50	3.8	-1.342	-0.0016	-2.5 to 2.5	Pass				

	846.5	25	0	20	3.4	-1.174	-0.0014	-2.5 to 2.5	Pass		
					3.8	-0.176	-0.0002	-2.5 to 2.5	Pass		
					4.2	-1.411	-0.0017	-2.5 to 2.5	Pass		
				-30	3.8	0.150	0.0002	-2.5 to 2.5	Pass		
					-20	3.8	0.602	0.0007	-2.5 to 2.5	Pass	
						3.8	0.959	0.0011	-2.5 to 2.5	Pass	
				-10	3.8	0.939	0.0011	-2.5 to 2.5	Pass		
					0	3.8	-0.764	-0.0009	-2.5 to 2.5	Pass	
				10	3.8	-0.665	-0.0008	-2.5 to 2.5	Pass		
	3.8	-1.683	-0.0020		-2.5 to 2.5	Pass					
	30	3.8	0.938	0.0011	-2.5 to 2.5	Pass					
		3.8	0.938	0.0011	-2.5 to 2.5	Pass					
	16QAM	826.5	25	0	20	3.4	-1.756	-0.0021	-2.5 to 2.5	Pass	
						3.8	-2.300	-0.0028	-2.5 to 2.5	Pass	
						4.2	-1.048	-0.0013	-2.5 to 2.5	Pass	
					-30	3.8	-1.403	-0.0017	-2.5 to 2.5	Pass	
						-20	3.8	-2.835	-0.0034	-2.5 to 2.5	Pass
							3.8	-0.374	-0.0005	-2.5 to 2.5	Pass
-10					3.8	-1.517	-0.0018	-2.5 to 2.5	Pass		
					0	3.8	-1.878	-0.0023	-2.5 to 2.5	Pass	
10					3.8	-2.511	-0.0030	-2.5 to 2.5	Pass		
		3.8	-1.281	-0.0015	-2.5 to 2.5	Pass					
30		3.8	-1.132	-0.0014	-2.5 to 2.5	Pass					
		3.8	-1.132	-0.0014	-2.5 to 2.5	Pass					
836.5		25	0	20	3.4	-0.832	-0.0010	-2.5 to 2.5	Pass		
					3.8	-0.247	-0.0003	-2.5 to 2.5	Pass		
					4.2	-0.849	-0.0010	-2.5 to 2.5	Pass		
				-30	3.8	-0.854	-0.0010	-2.5 to 2.5	Pass		
					-20	3.8	-0.282	-0.0003	-2.5 to 2.5	Pass	
						3.8	-1.942	-0.0023	-2.5 to 2.5	Pass	
	-10			3.8	-1.749	-0.0021	-2.5 to 2.5	Pass			
				0	3.8	-1.438	-0.0017	-2.5 to 2.5	Pass		
	10			3.8	-1.215	-0.0015	-2.5 to 2.5	Pass			
3.8		-0.517	-0.0006	-2.5 to 2.5	Pass						
30	3.8	-1.017	-0.0012	-2.5 to 2.5	Pass						
	3.8	-1.017	-0.0012	-2.5 to 2.5	Pass						
846.5	25	0	20	3.4	-0.805	-0.0010	-2.5 to 2.5	Pass			
				3.8	-0.288	-0.0003	-2.5 to 2.5	Pass			
				4.2	-0.532	-0.0006	-2.5 to 2.5	Pass			
			-30	3.8	-1.297	-0.0015	-2.5 to 2.5	Pass			
				-20	3.8	0.472	0.0006	-2.5 to 2.5	Pass		
					3.8	-0.861	-0.0010	-2.5 to 2.5	Pass		
			-10	3.8	0.484	0.0006	-2.5 to 2.5	Pass			
				0	3.8	0.147	0.0002	-2.5 to 2.5	Pass		
			10	3.8	-0.767	-0.0009	-2.5 to 2.5	Pass			
3.8	-0.181	-0.0002		-2.5 to 2.5	Pass						
30	3.8	-0.951	-0.0011	-2.5 to 2.5	Pass						
	3.8	-0.951	-0.0011	-2.5 to 2.5	Pass						

2.1.4 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	3.4	-1.147	-0.0014	-2.5 to 2.5	Pass	
					3.8	-1.056	-0.0013	-2.5 to 2.5	Pass	
					4.2	0.216	0.0003	-2.5 to 2.5	Pass	
				-30	3.8	-1.577	-0.0019	-2.5 to 2.5	Pass	
					-20	3.8	-0.500	-0.0006	-2.5 to 2.5	Pass
						3.8	-2.055	-0.0025	-2.5 to 2.5	Pass
				-10	3.8	0.446	0.0005	-2.5 to 2.5	Pass	
					0	3.8	-1.497	-0.0018	-2.5 to 2.5	Pass
				10	3.8	-1.497	-0.0018	-2.5 to 2.5	Pass	
3.8	-1.078	-0.0013	-2.5 to 2.5		Pass					

	836.5	50	0	40	3.8	-0.803	-0.0010	-2.5 to 2.5	Pass				
				50	3.8	-2.149	-0.0026	-2.5 to 2.5	Pass				
				20	3.4	-0.512	-0.0006	-2.5 to 2.5	Pass				
					3.8	-0.508	-0.0006	-2.5 to 2.5	Pass				
					4.2	-1.455	-0.0017	-2.5 to 2.5	Pass				
				-30	3.8	-1.337	-0.0016	-2.5 to 2.5	Pass				
				-20	3.8	-0.070	-0.0001	-2.5 to 2.5	Pass				
				-10	3.8	-1.545	-0.0018	-2.5 to 2.5	Pass				
				0	3.8	-1.112	-0.0013	-2.5 to 2.5	Pass				
				10	3.8	-1.009	-0.0012	-2.5 to 2.5	Pass				
				30	3.8	-0.825	-0.0010	-2.5 to 2.5	Pass				
				40	3.8	-1.185	-0.0014	-2.5 to 2.5	Pass				
				50	3.8	-0.456	-0.0005	-2.5 to 2.5	Pass				
				844	50	0	20	3.4	-0.843	-0.0010	-2.5 to 2.5	Pass	
								3.8	0.198	0.0002	-2.5 to 2.5	Pass	
	4.2	-0.992	-0.0012					-2.5 to 2.5	Pass				
	-30	3.8	-0.044				-0.0001	-2.5 to 2.5	Pass				
	-20	3.8	-0.332				-0.0004	-2.5 to 2.5	Pass				
	-10	3.8	-0.173				-0.0002	-2.5 to 2.5	Pass				
	0	3.8	-0.548				-0.0006	-2.5 to 2.5	Pass				
	10	3.8	-1.040				-0.0012	-2.5 to 2.5	Pass				
	30	3.8	0.642				0.0008	-2.5 to 2.5	Pass				
	40	3.8	-1.059				-0.0013	-2.5 to 2.5	Pass				
	50	3.8	1.272				0.0015	-2.5 to 2.5	Pass				
	16QAM	829	50				0	20	3.4	0.082	0.0001	-2.5 to 2.5	Pass
									3.8	-0.534	-0.0006	-2.5 to 2.5	Pass
									4.2	-0.677	-0.0008	-2.5 to 2.5	Pass
								-30	3.8	-1.700	-0.0021	-2.5 to 2.5	Pass
				-20	3.8	0.104		0.0001	-2.5 to 2.5	Pass			
				-10	3.8	-0.286		-0.0003	-2.5 to 2.5	Pass			
0				3.8	-0.477	-0.0006		-2.5 to 2.5	Pass				
10				3.8	-1.408	-0.0017		-2.5 to 2.5	Pass				
30				3.8	-0.070	-0.0001		-2.5 to 2.5	Pass				
40				3.8	-0.481	-0.0006		-2.5 to 2.5	Pass				
50				3.8	0.385	0.0005		-2.5 to 2.5	Pass				
836.5				50	0	20		3.4	-1.350	-0.0016	-2.5 to 2.5	Pass	
								3.8	-0.417	-0.0005	-2.5 to 2.5	Pass	
								4.2	-1.850	-0.0022	-2.5 to 2.5	Pass	
						-30		3.8	-0.831	-0.0010	-2.5 to 2.5	Pass	
		-20	3.8			-0.319	-0.0004	-2.5 to 2.5	Pass				
		-10	3.8			0.534	0.0006	-2.5 to 2.5	Pass				
		0	3.8			-1.292	-0.0015	-2.5 to 2.5	Pass				
		10	3.8			-0.818	-0.0010	-2.5 to 2.5	Pass				
		30	3.8			-1.376	-0.0016	-2.5 to 2.5	Pass				
		40	3.8			-0.973	-0.0012	-2.5 to 2.5	Pass				
		50	3.8			-0.735	-0.0009	-2.5 to 2.5	Pass				
		844	50			0	20	3.4	0.072	0.0001	-2.5 to 2.5	Pass	
								3.8	0.109	0.0001	-2.5 to 2.5	Pass	
								4.2	-0.500	-0.0006	-2.5 to 2.5	Pass	
							-30	3.8	-0.267	-0.0003	-2.5 to 2.5	Pass	
-20				3.8	0.205		0.0002	-2.5 to 2.5	Pass				
-10				3.8	-0.261		-0.0003	-2.5 to 2.5	Pass				
0				3.8	-1.141		-0.0014	-2.5 to 2.5	Pass				
10				3.8	-0.442		-0.0005	-2.5 to 2.5	Pass				
30	3.8			-0.694	-0.0008		-2.5 to 2.5	Pass					
40	3.8			-0.839	-0.0010		-2.5 to 2.5	Pass					
50	3.8			0.085	0.0001		-2.5 to 2.5	Pass					

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band5_OBW

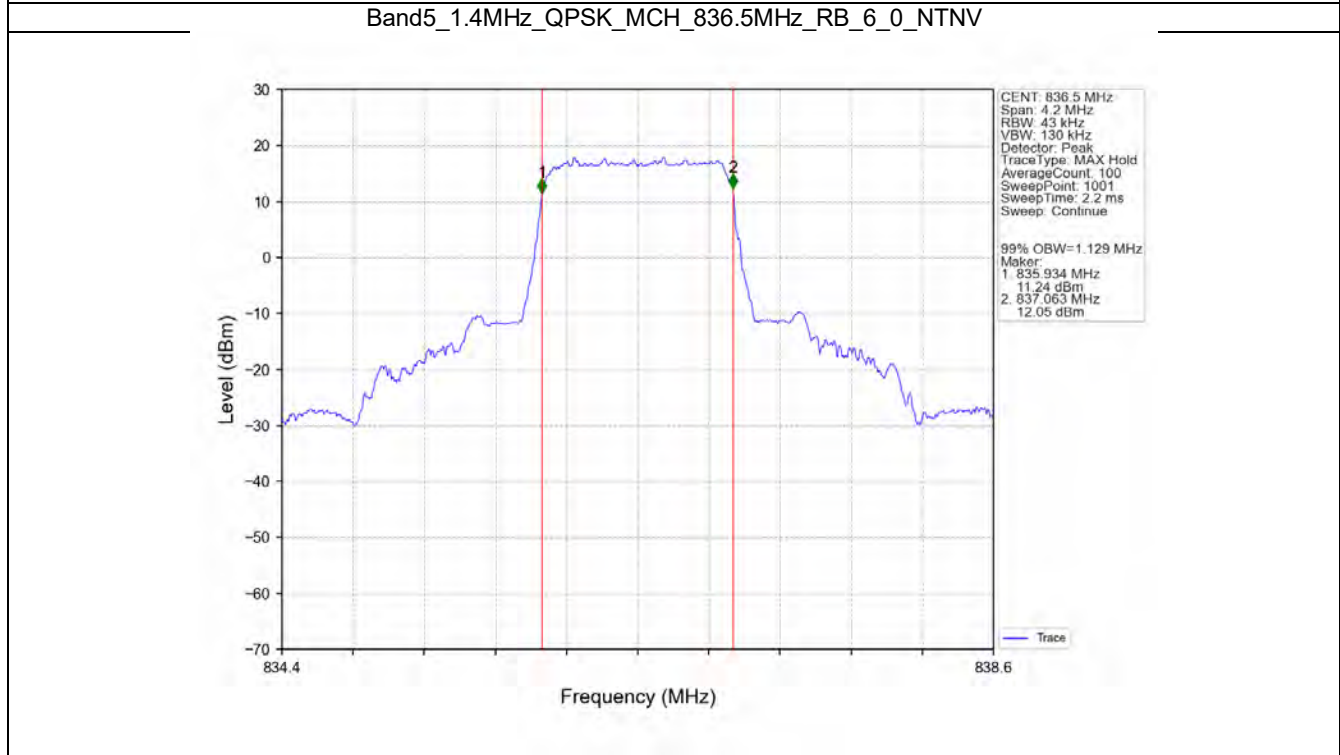
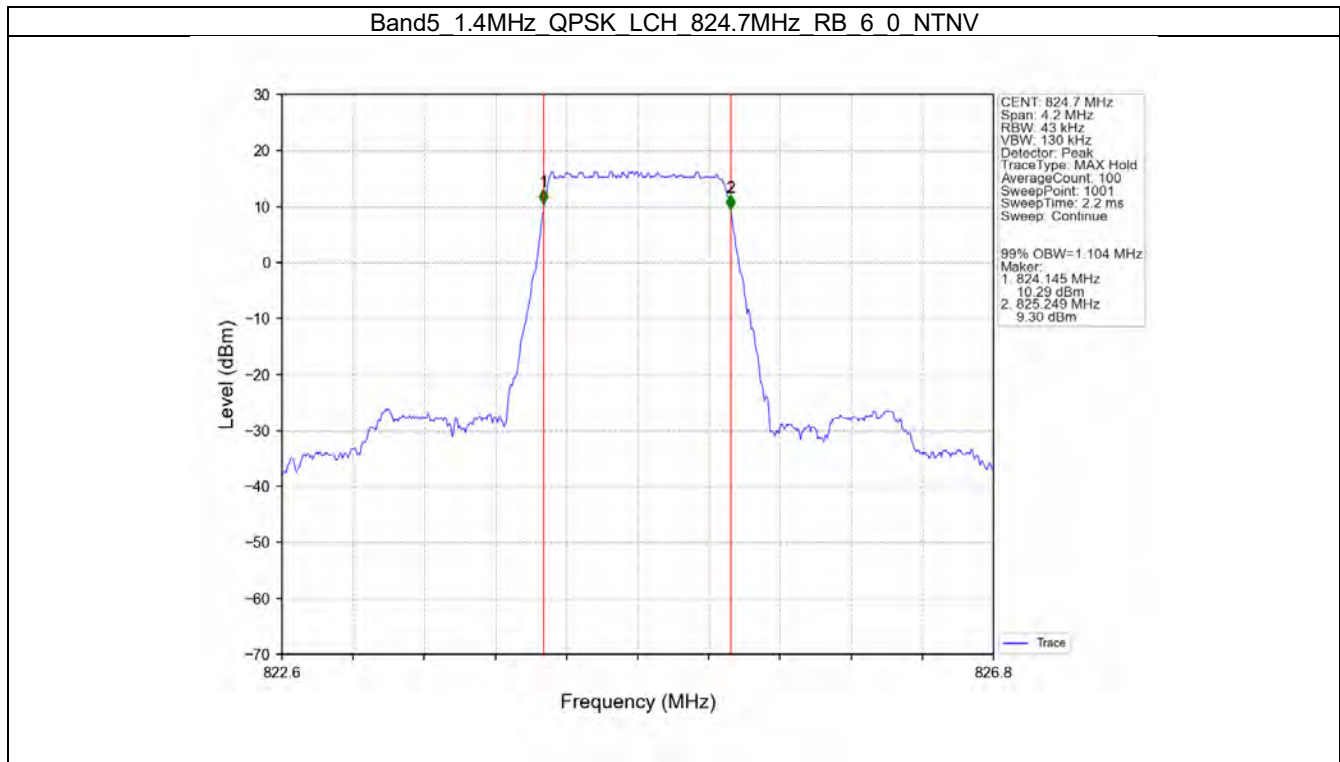
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.104	/	Pass
		836.5	6	0	1.129	/	Pass
		848.3	6	0	1.119	/	Pass
	16QAM	824.7	6	0	1.117	/	Pass
		836.5	6	0	1.122	/	Pass
		848.3	6	0	1.128	/	Pass
3	QPSK	825.5	15	0	2.746	/	Pass
		836.5	15	0	2.758	/	Pass
		847.5	15	0	2.756	/	Pass
	16QAM	825.5	15	0	2.734	/	Pass
		836.5	15	0	2.743	/	Pass
		847.5	15	0	2.732	/	Pass
5	QPSK	826.5	25	0	4.556	/	Pass
		836.5	25	0	4.563	/	Pass
		846.5	25	0	4.564	/	Pass
	16QAM	826.5	25	0	4.539	/	Pass
		836.5	25	0	4.597	/	Pass
		846.5	25	0	4.565	/	Pass
10	QPSK	829	50	0	9.052	/	Pass
		836.5	50	0	9.066	/	Pass
		844	50	0	8.985	/	Pass
	16QAM	829	50	0	9.054	/	Pass
		836.5	50	0	9.078	/	Pass
		844	50	0	9.008	/	Pass

3.1.2 Band5_XDB

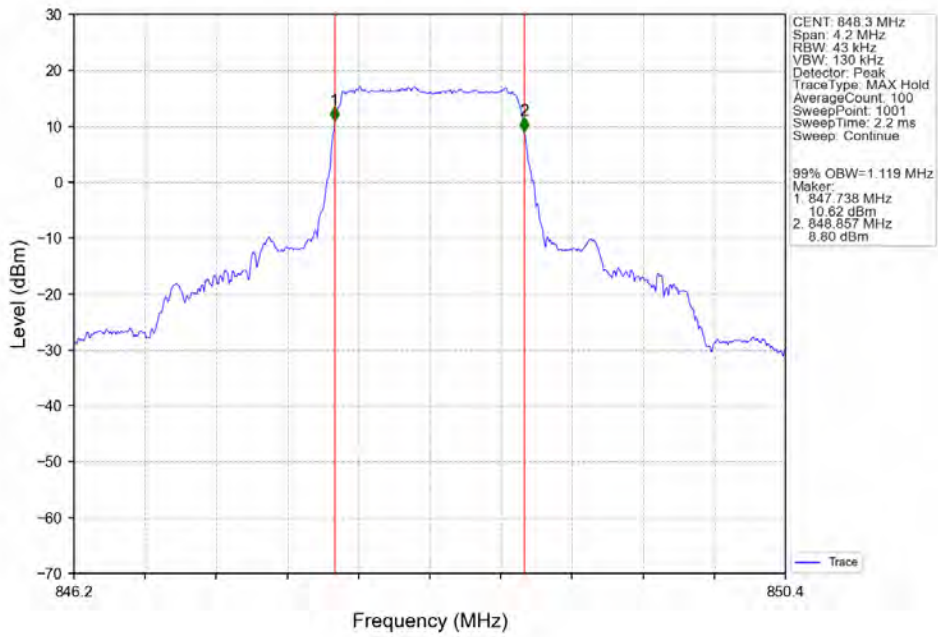
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.320	/	Pass
		836.5	6	0	1.336	/	Pass
		848.3	6	0	1.350	/	Pass
	16QAM	824.7	6	0	1.311	/	Pass
		836.5	6	0	1.346	/	Pass
		848.3	6	0	1.332	/	Pass
3	QPSK	825.5	15	0	3.041	/	Pass
		836.5	15	0	3.073	/	Pass
		847.5	15	0	3.049	/	Pass
	16QAM	825.5	15	0	3.035	/	Pass
		836.5	15	0	3.074	/	Pass
		847.5	15	0	3.027	/	Pass
5	QPSK	826.5	25	0	5.075	/	Pass
		836.5	25	0	5.103	/	Pass
		846.5	25	0	5.108	/	Pass
	16QAM	826.5	25	0	5.095	/	Pass
		836.5	25	0	5.108	/	Pass
		846.5	25	0	5.115	/	Pass
10	QPSK	829	50	0	10.125	/	Pass
		836.5	50	0	10.060	/	Pass
		844	50	0	10.024	/	Pass
	16QAM	829	50	0	10.083	/	Pass
		836.5	50	0	10.047	/	Pass
		844	50	0	9.998	/	Pass

3.2 Test Graph

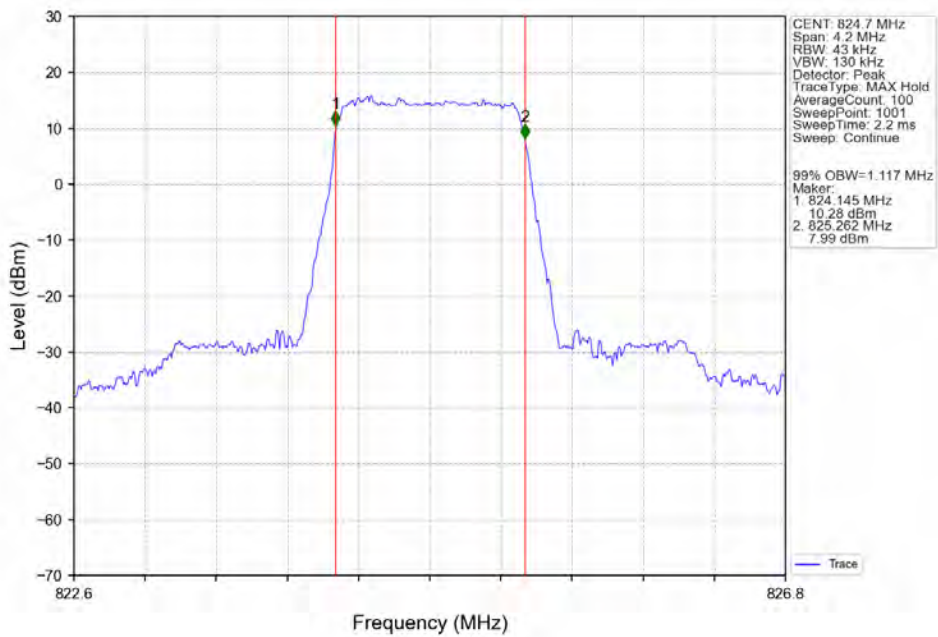
3.2.1 Band5_OBW



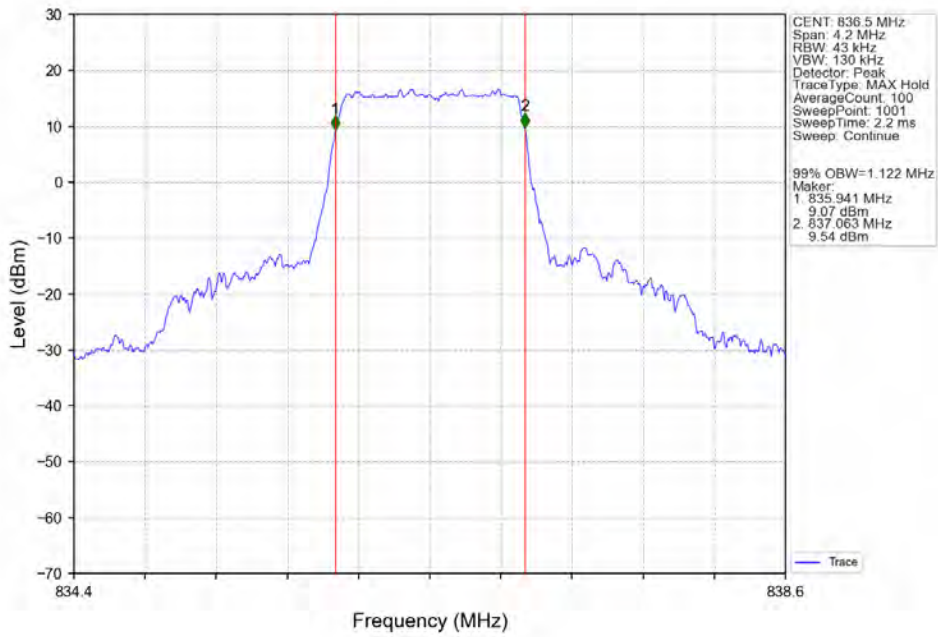
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN



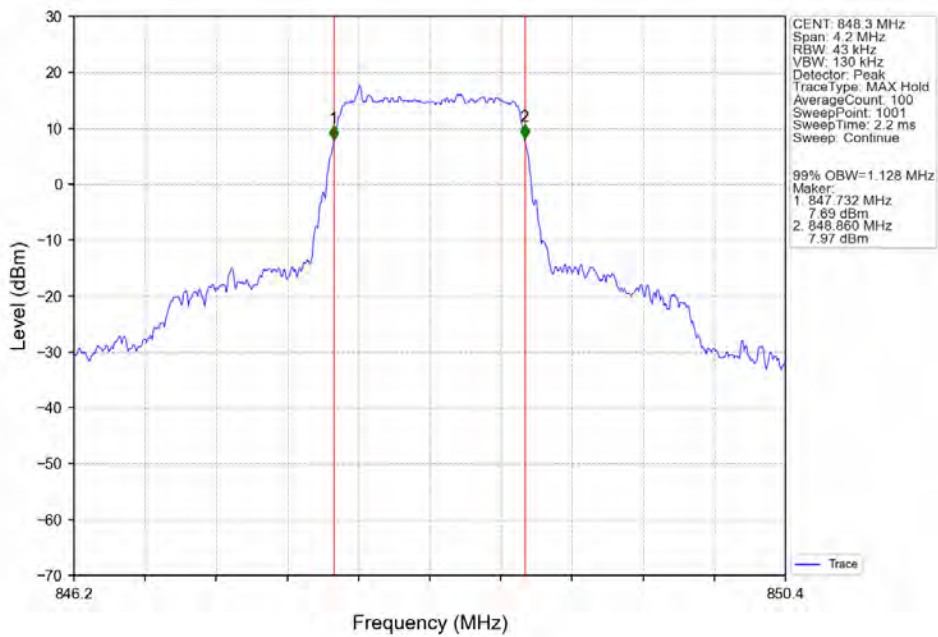
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTN



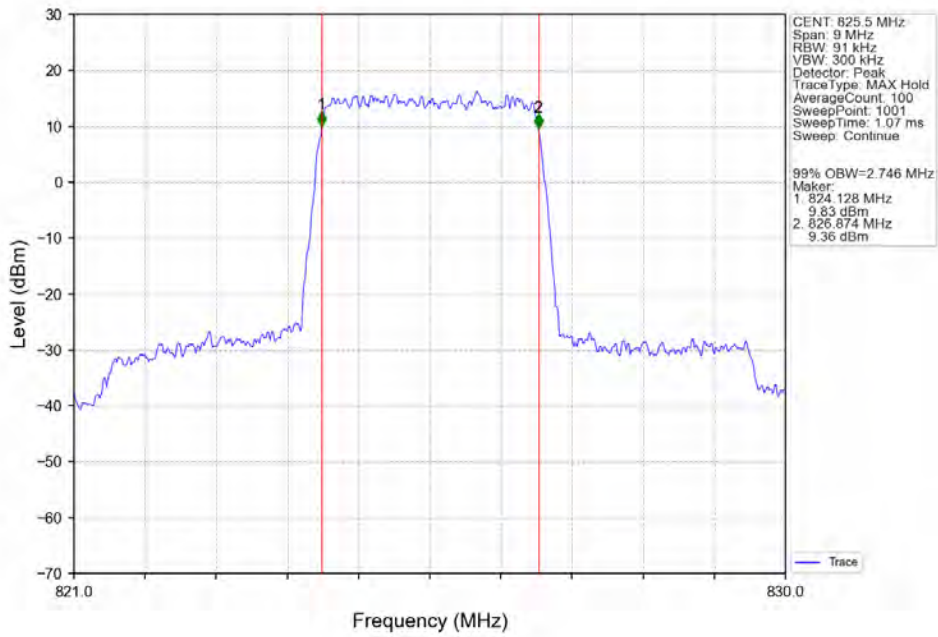
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



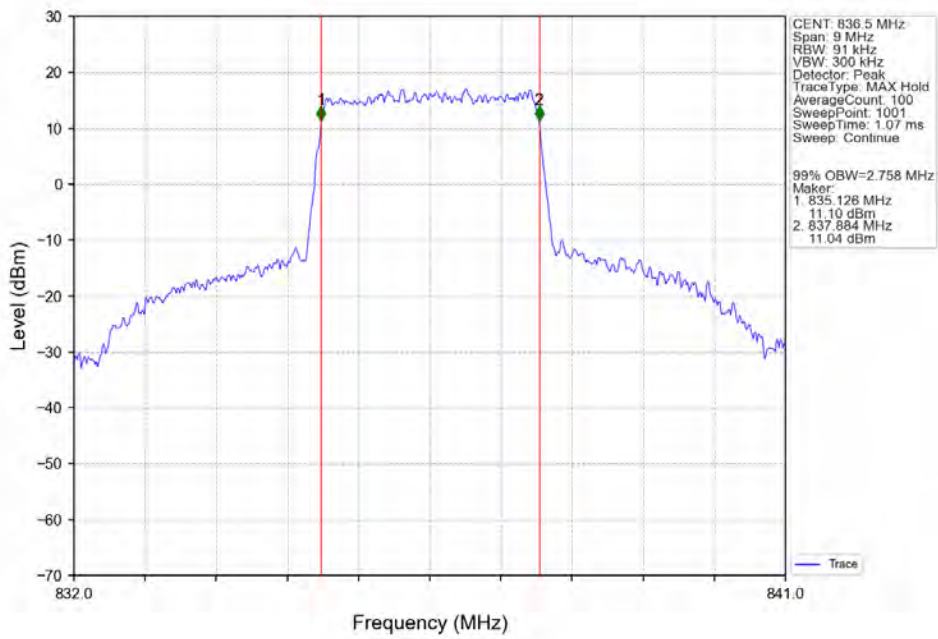
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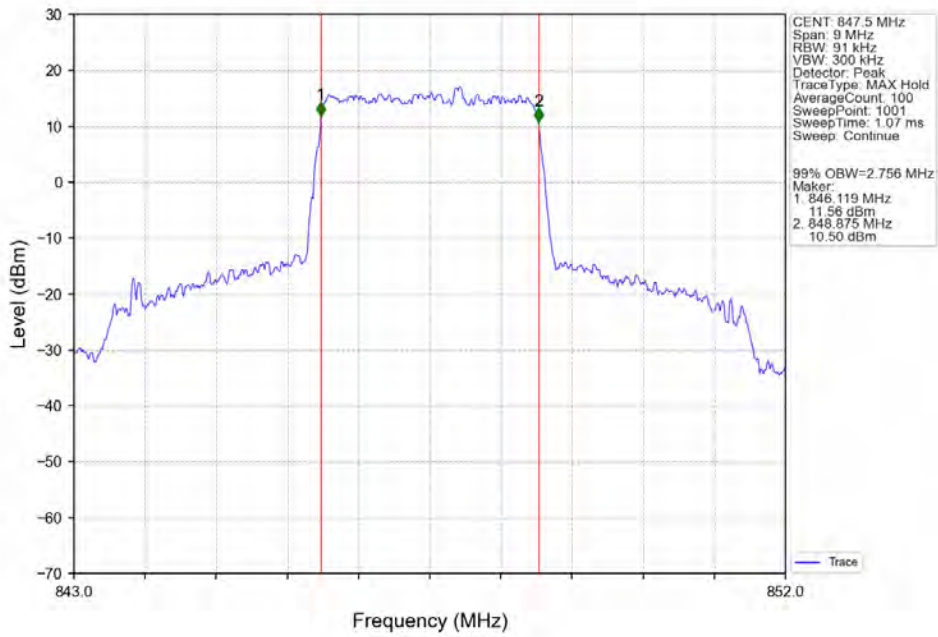
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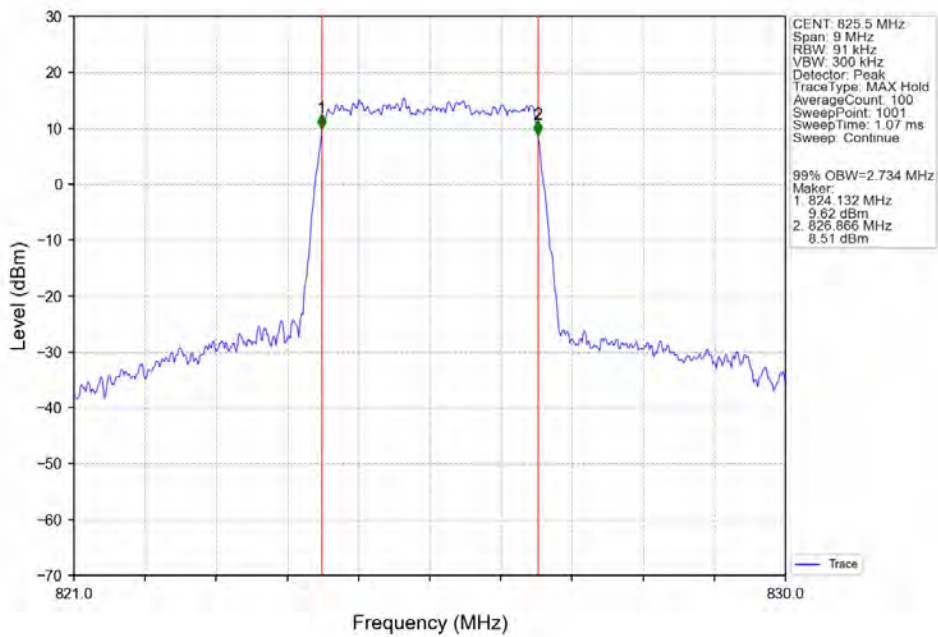
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



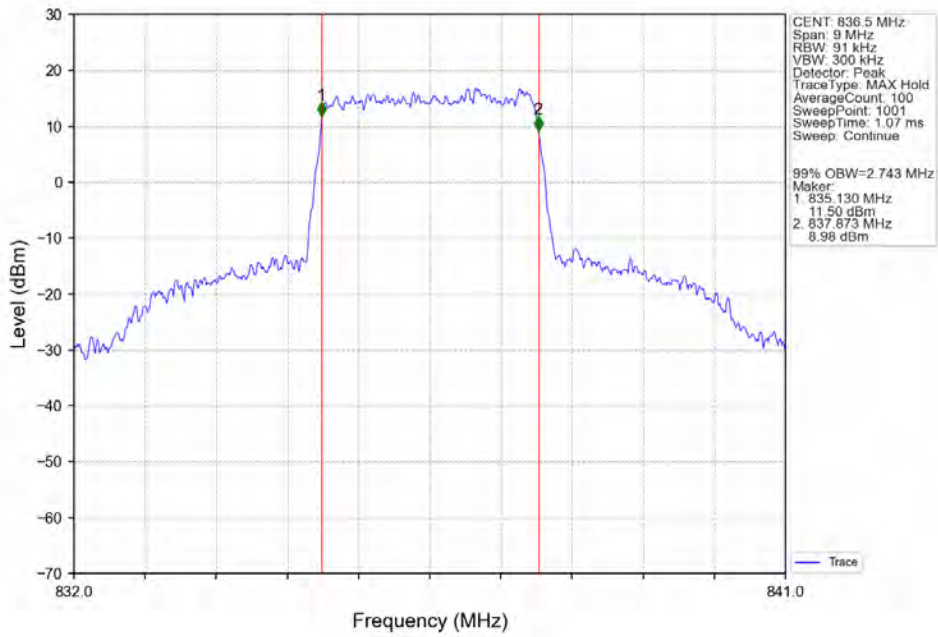
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



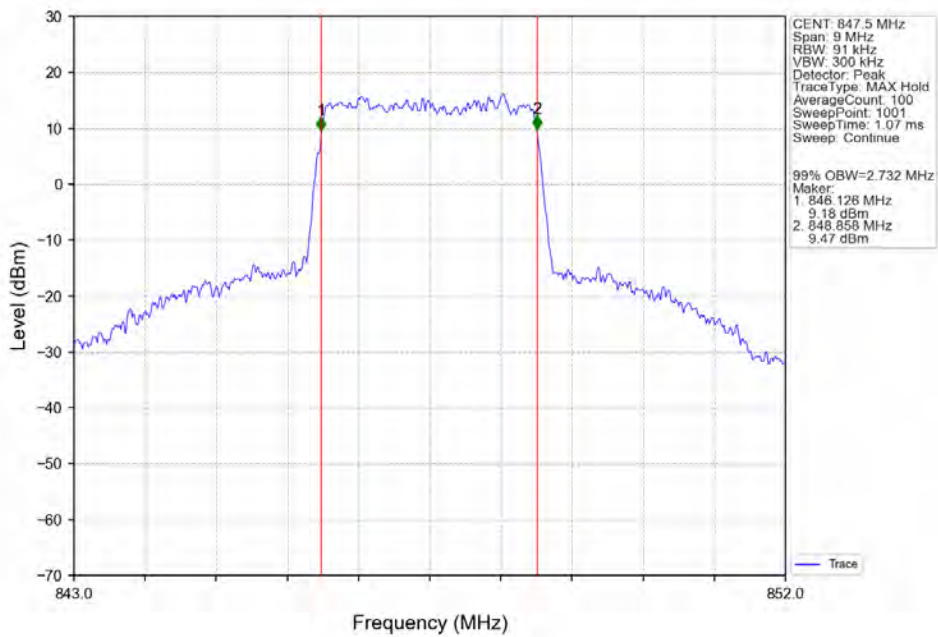
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



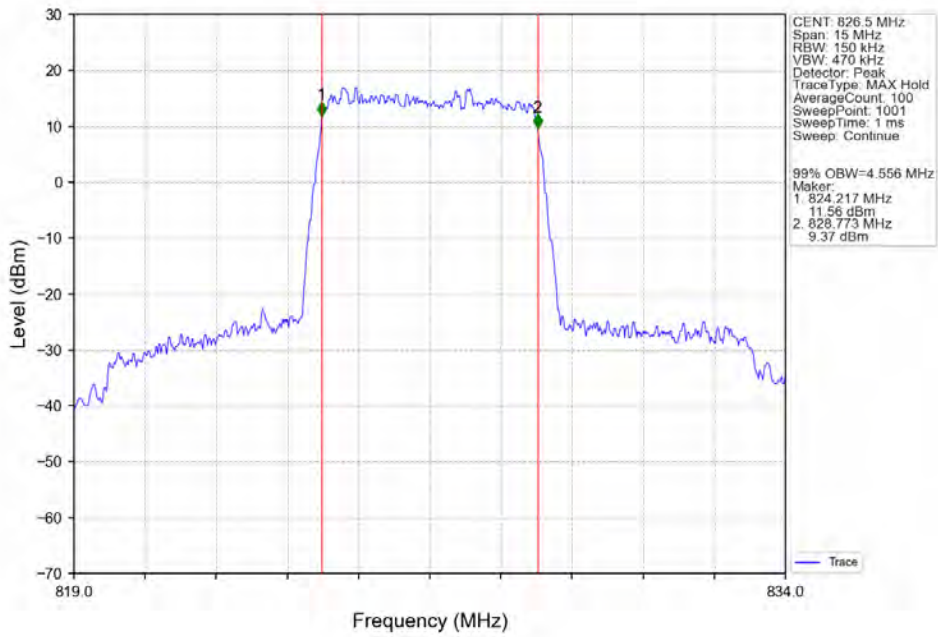
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



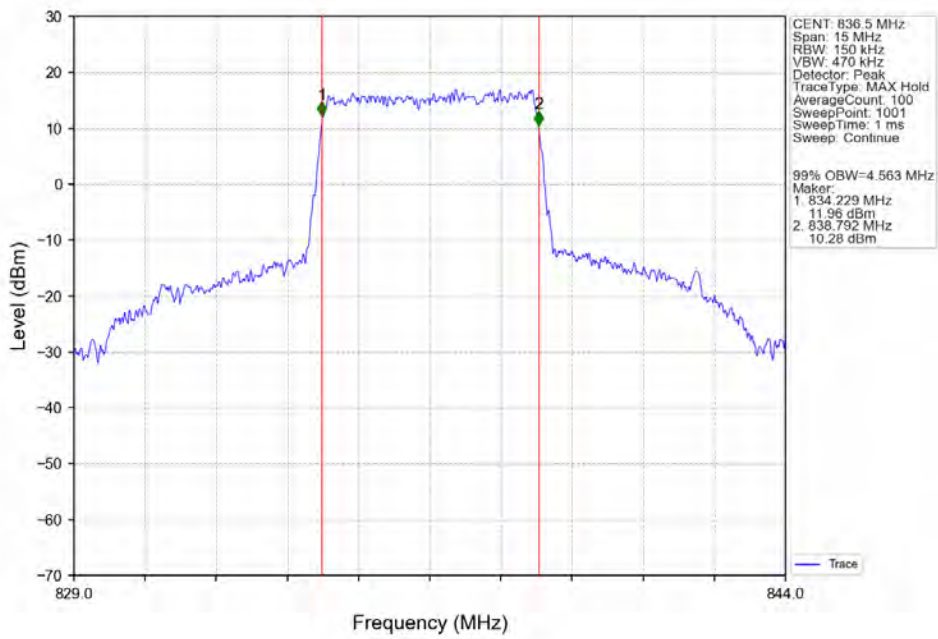
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



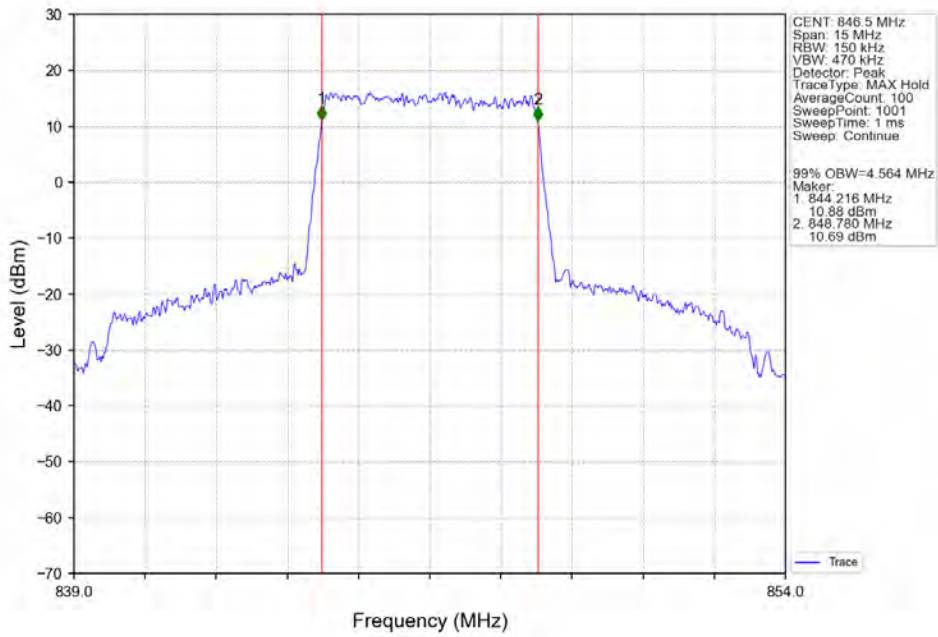
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



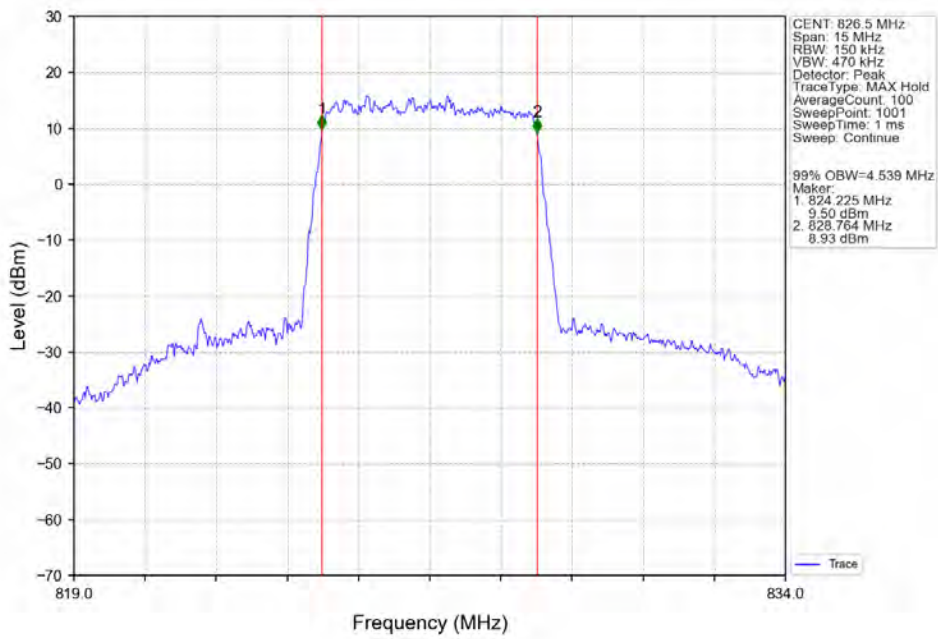
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



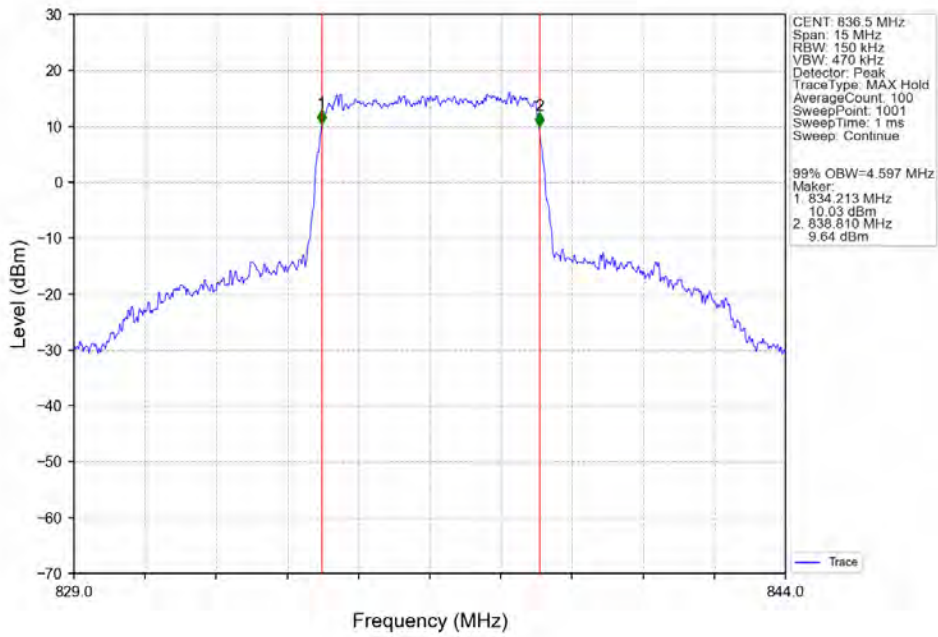
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



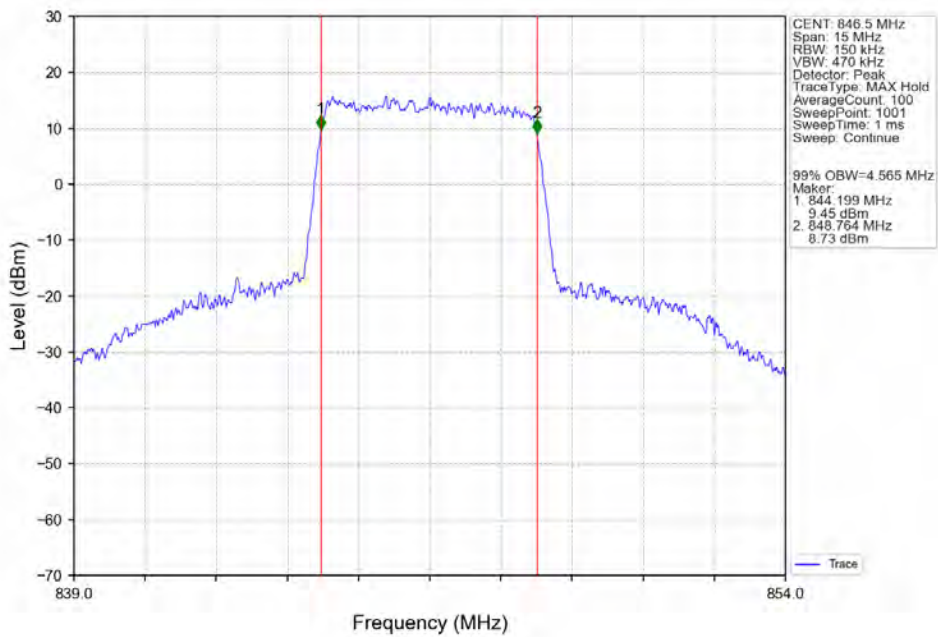
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



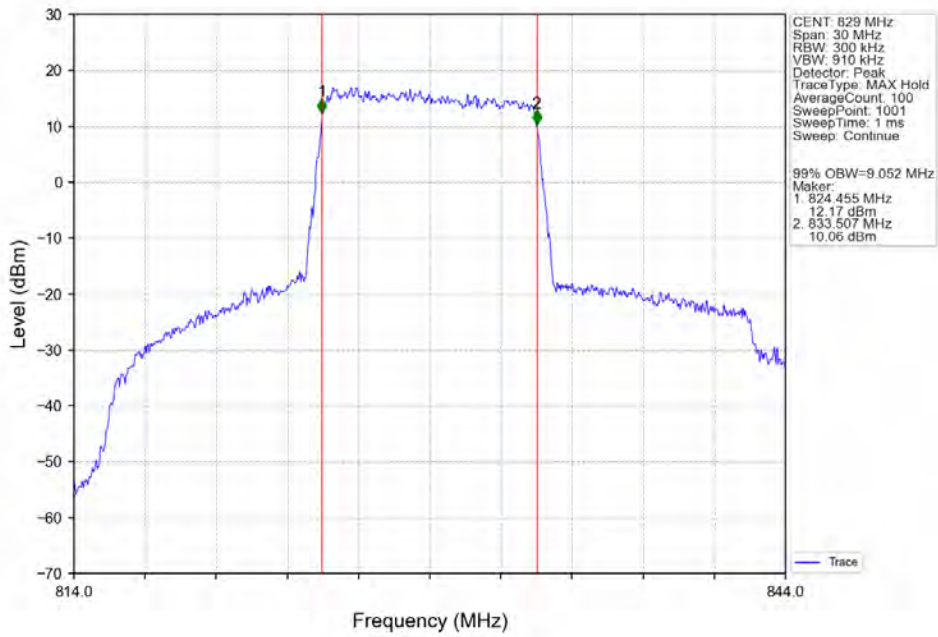
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



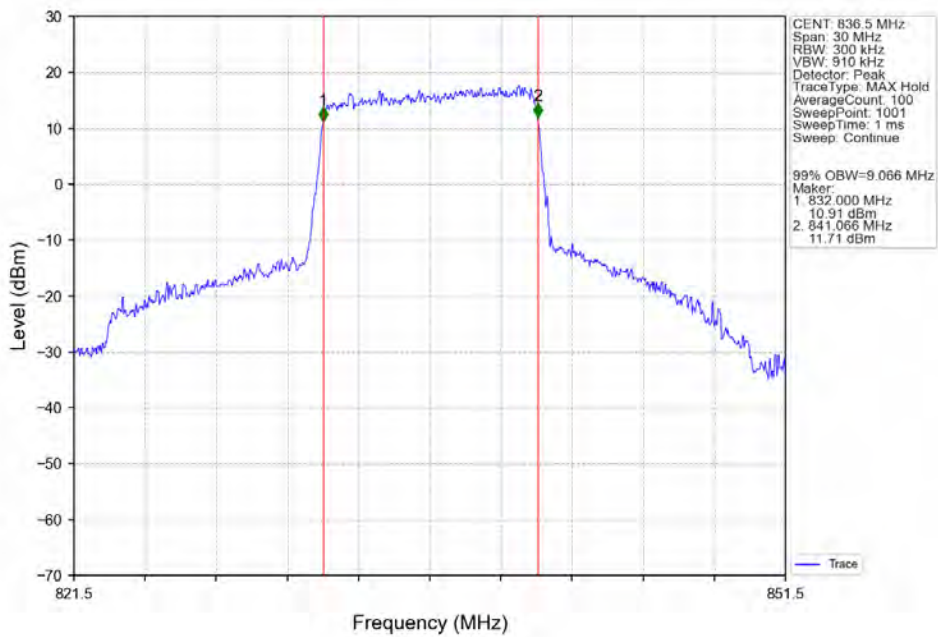
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



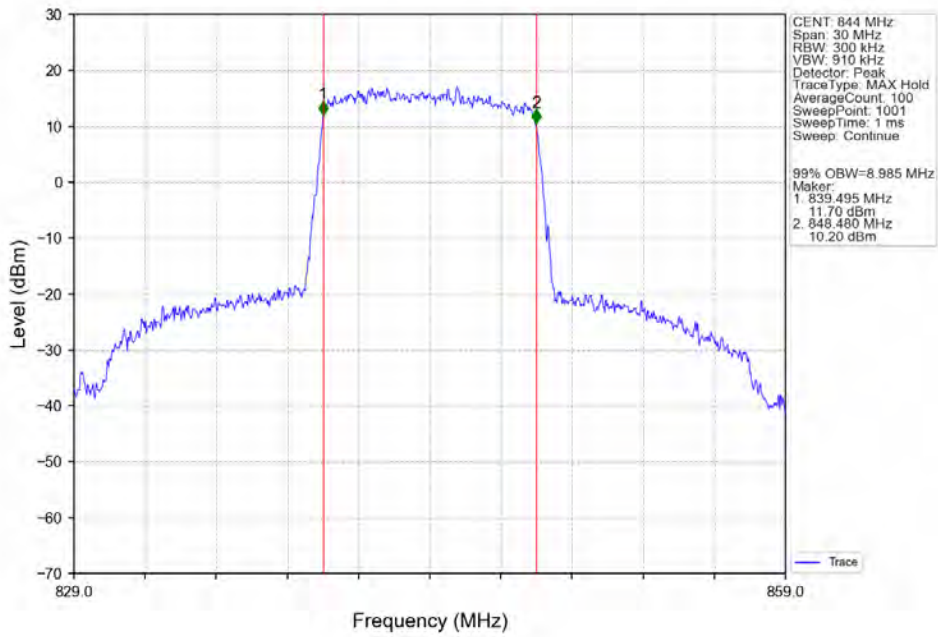
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



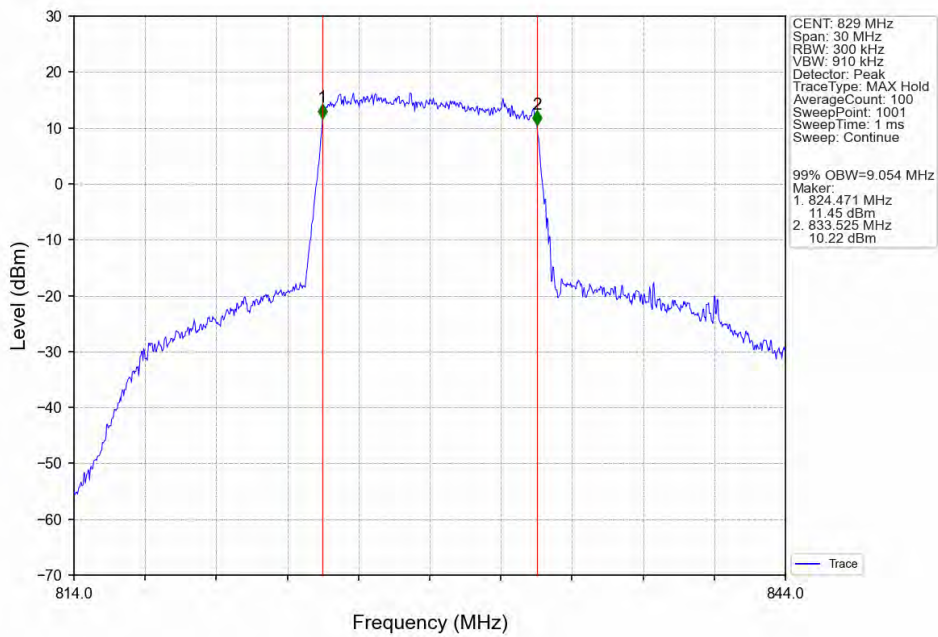
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



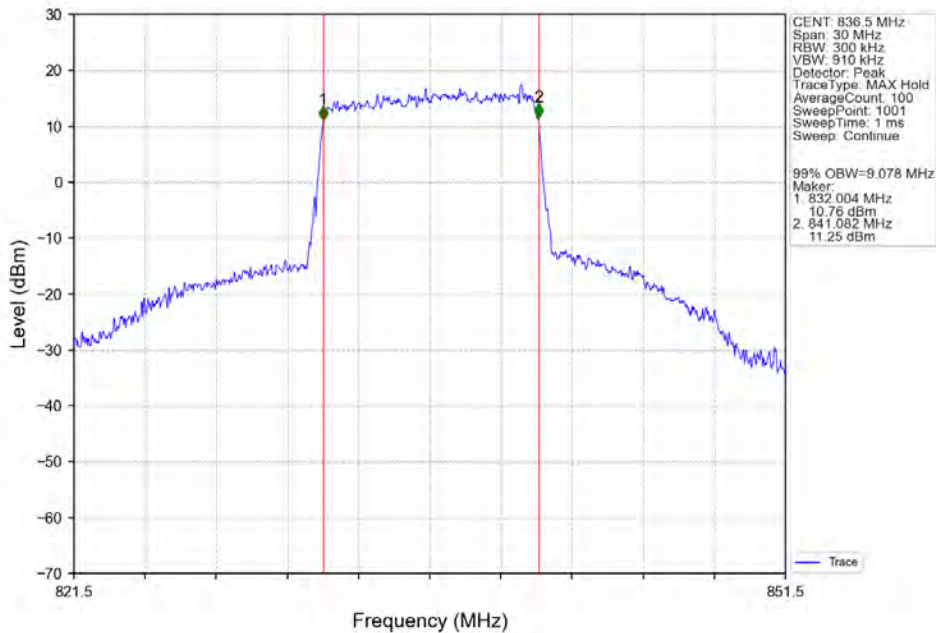
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



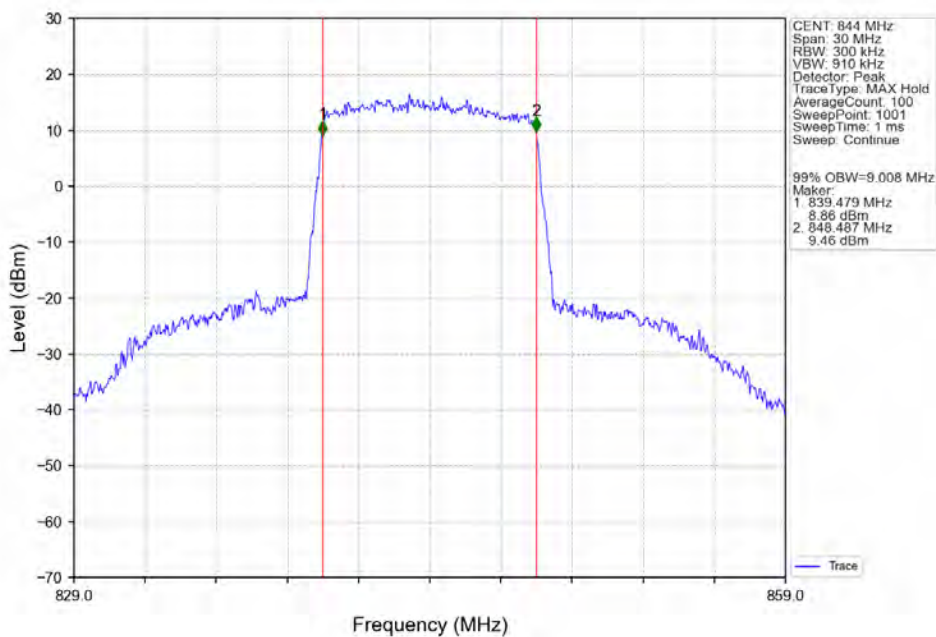
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

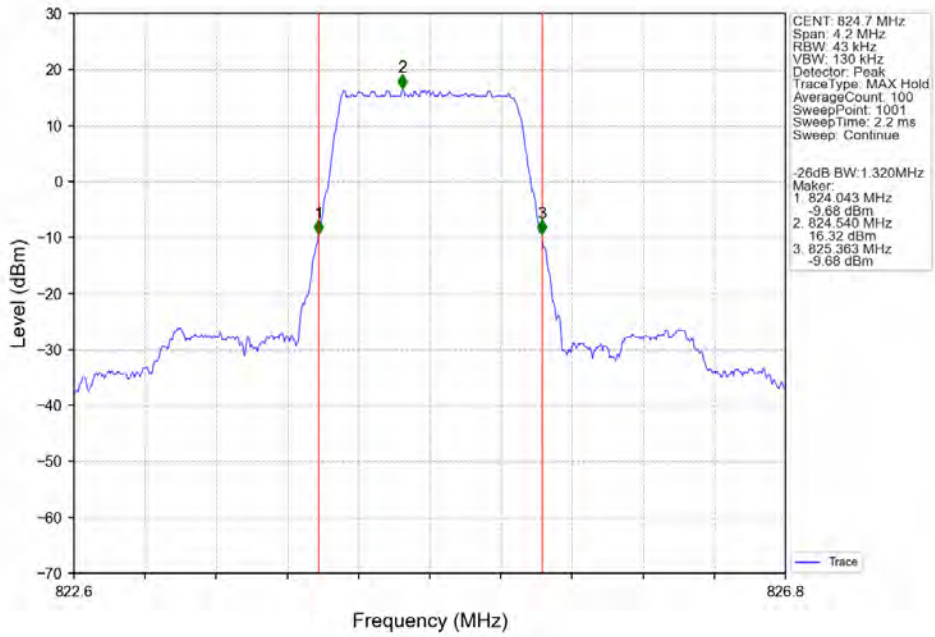


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

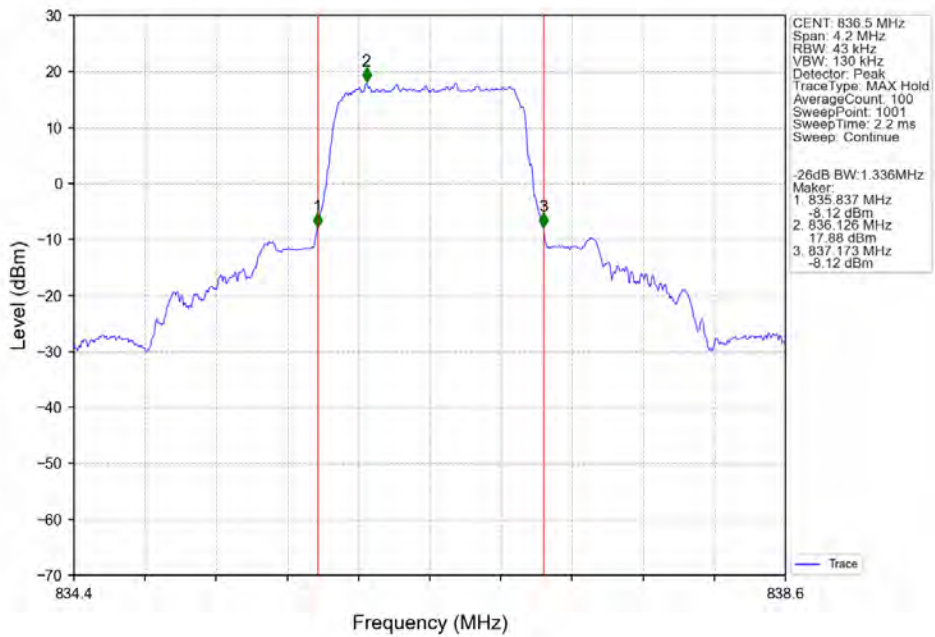


3.2.2 Band5_XDB

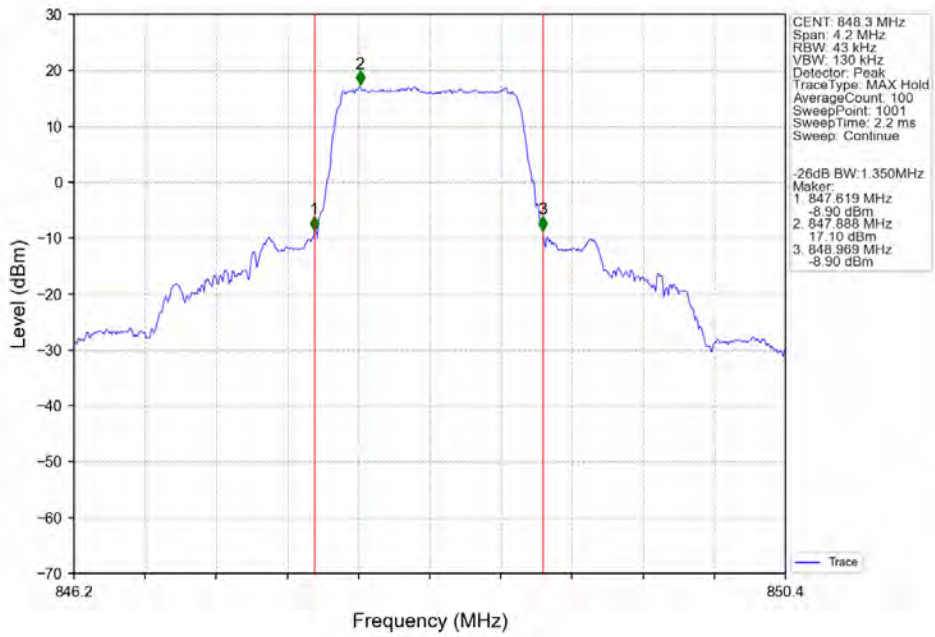
Band5 1.4MHz QPSK LCH 824.7MHz RB 6.0 NTV



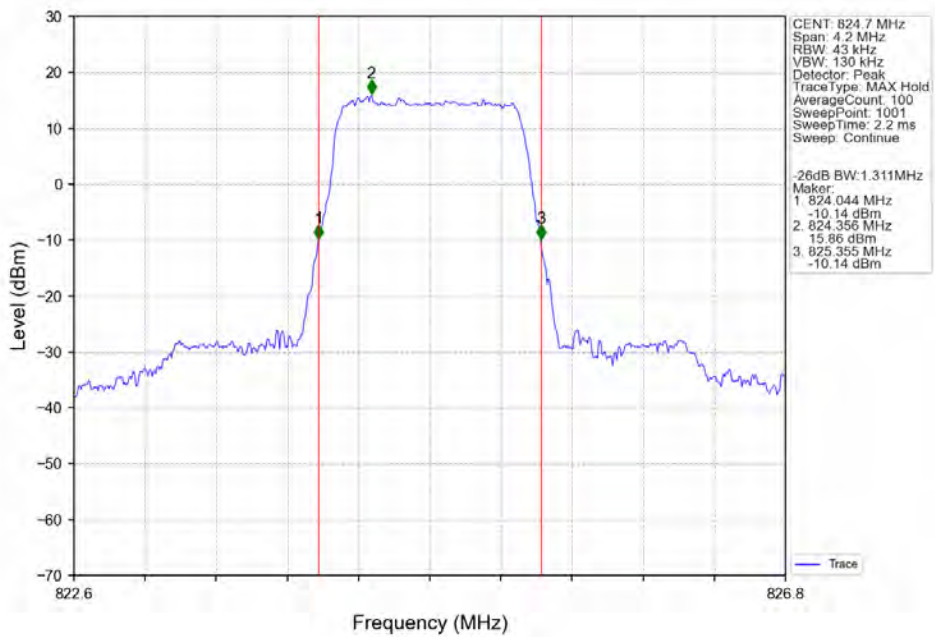
Band5 1.4MHz QPSK MCH 836.5MHz RB 6.0 NTV



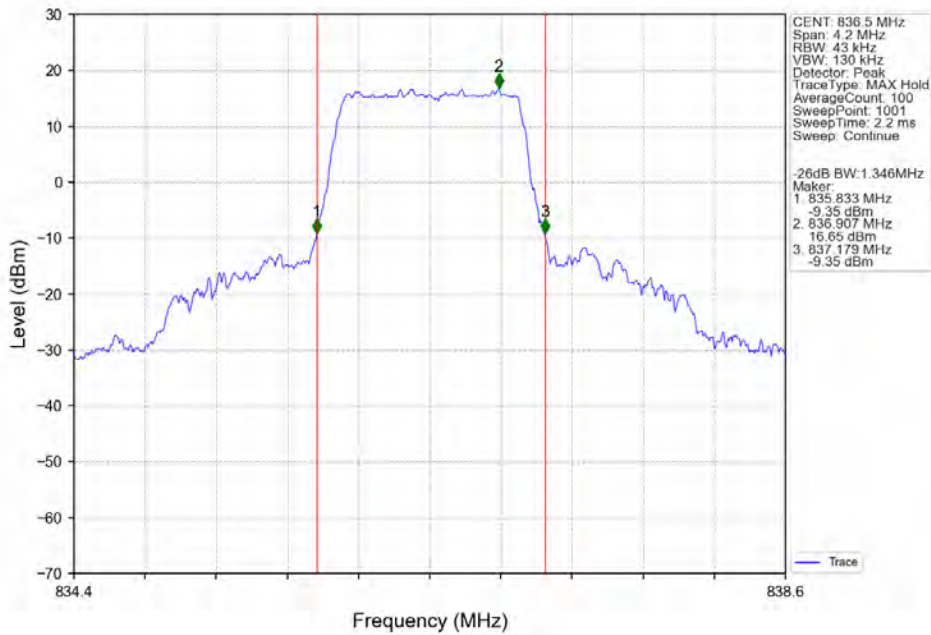
Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTV



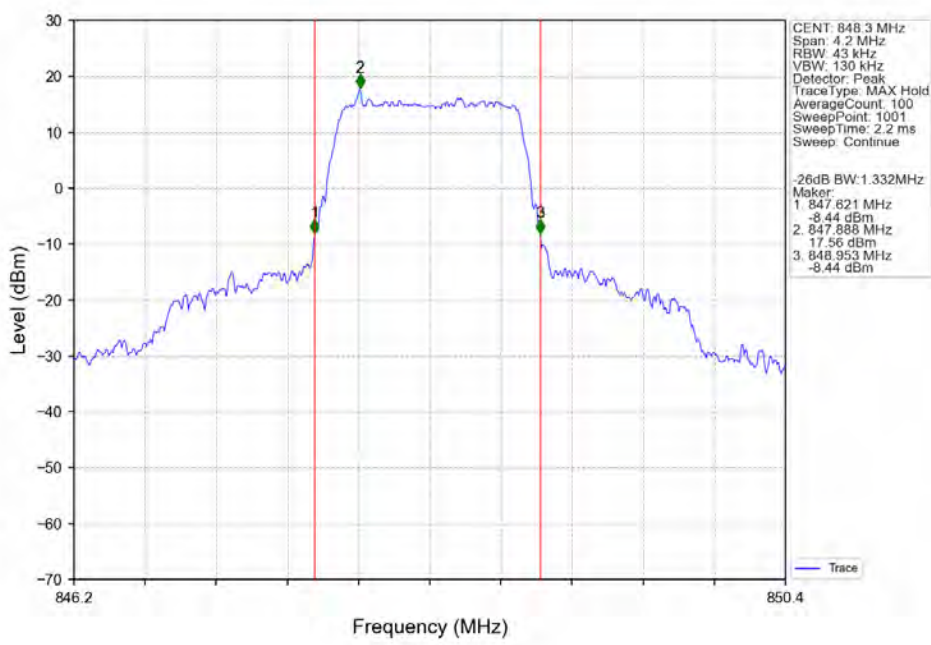
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6 0 NTV



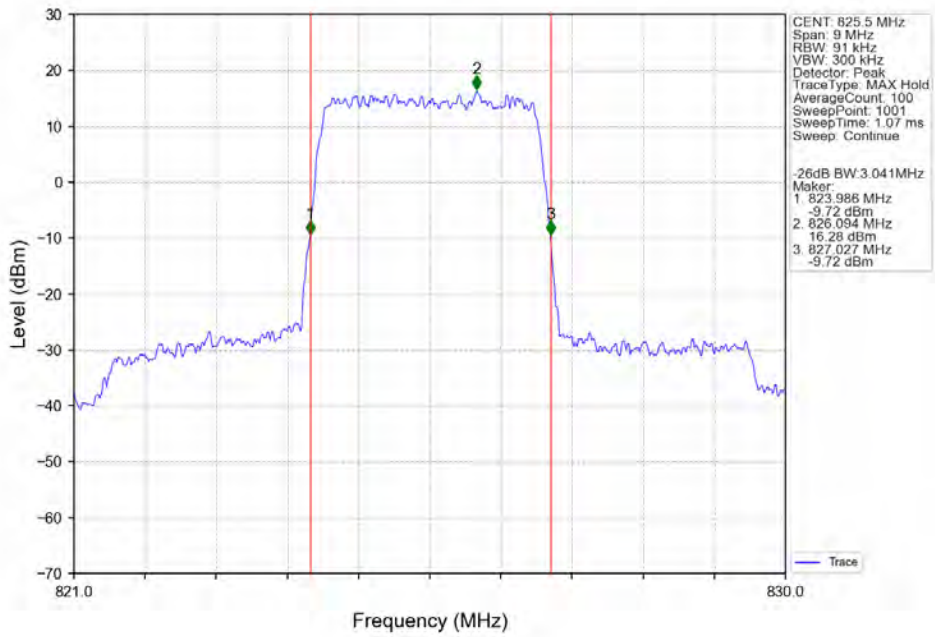
Band5 1.4MHz 16QAM MCH 836.5MHz RB 6 0 NTV



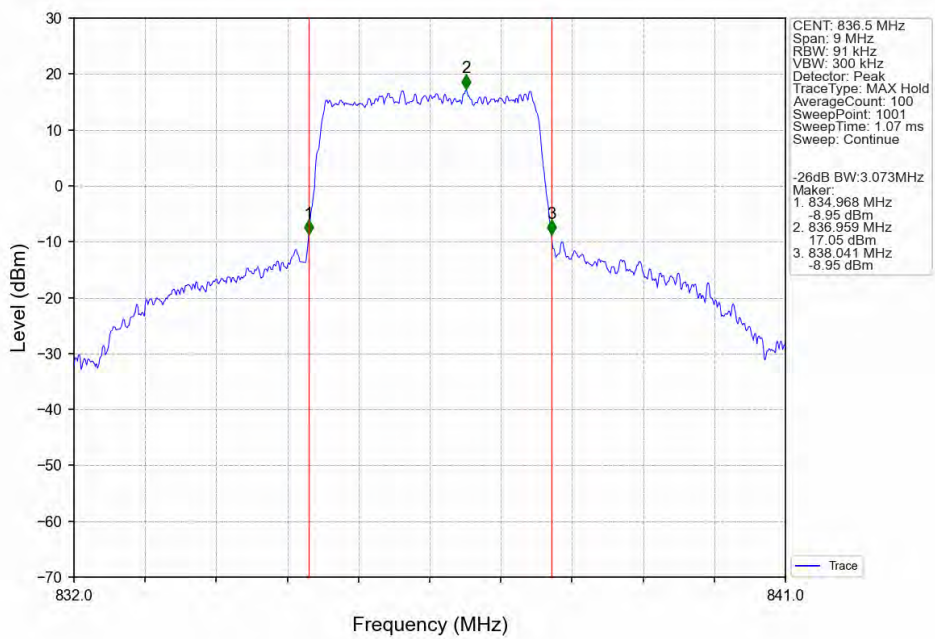
Band5 1.4MHz 16QAM HCH 848.3MHz RB 6 0 NTV



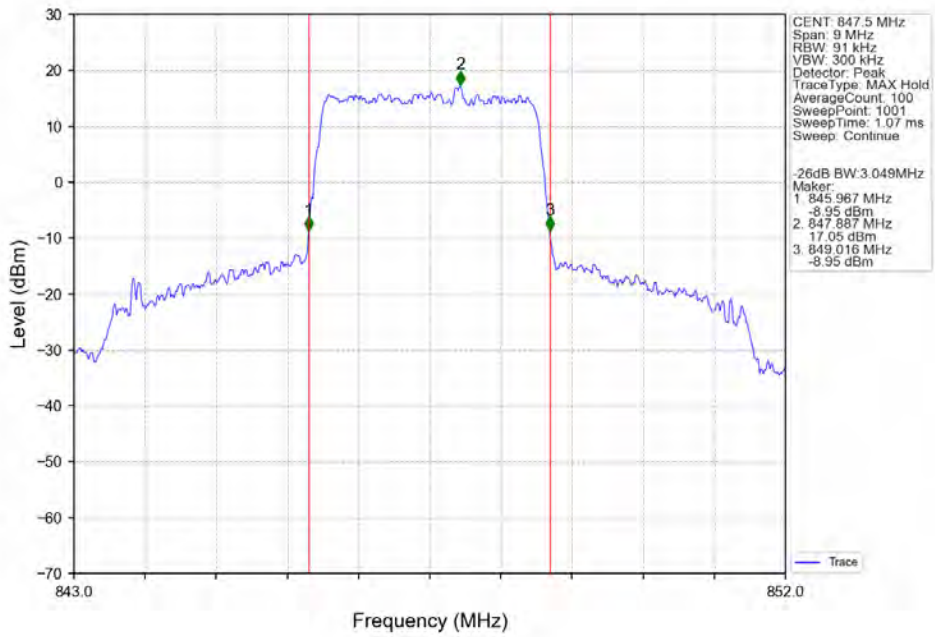
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



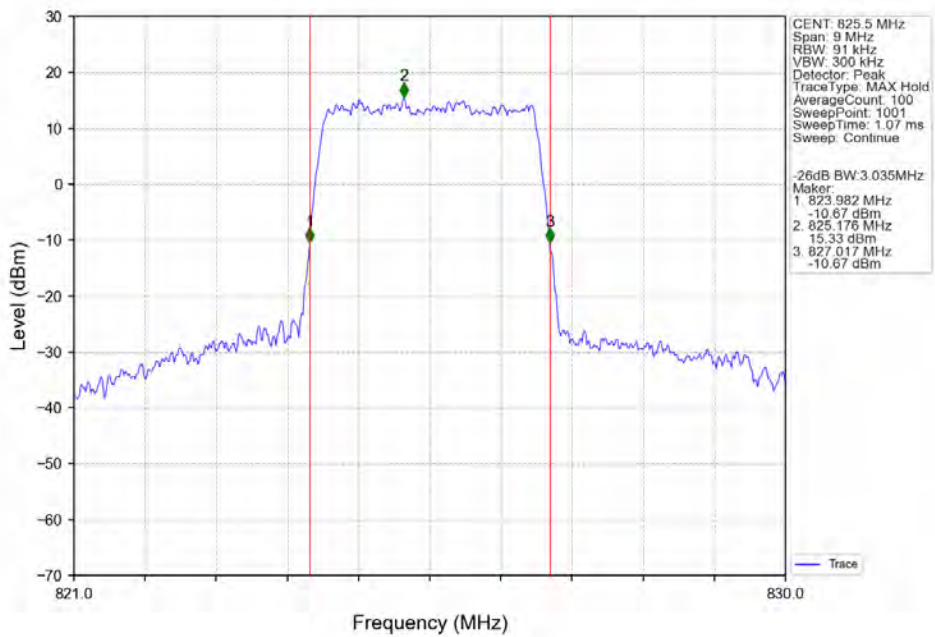
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



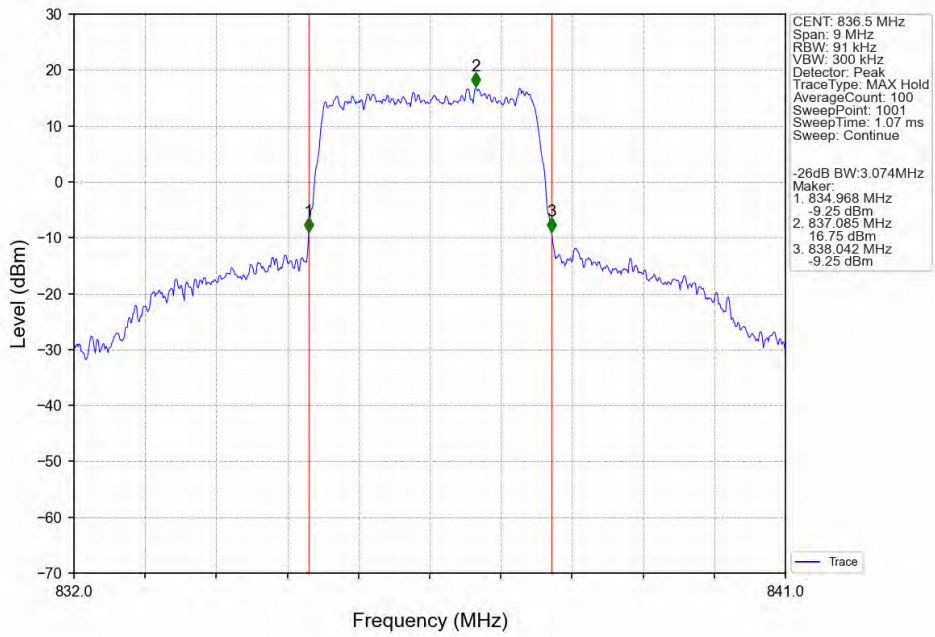
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



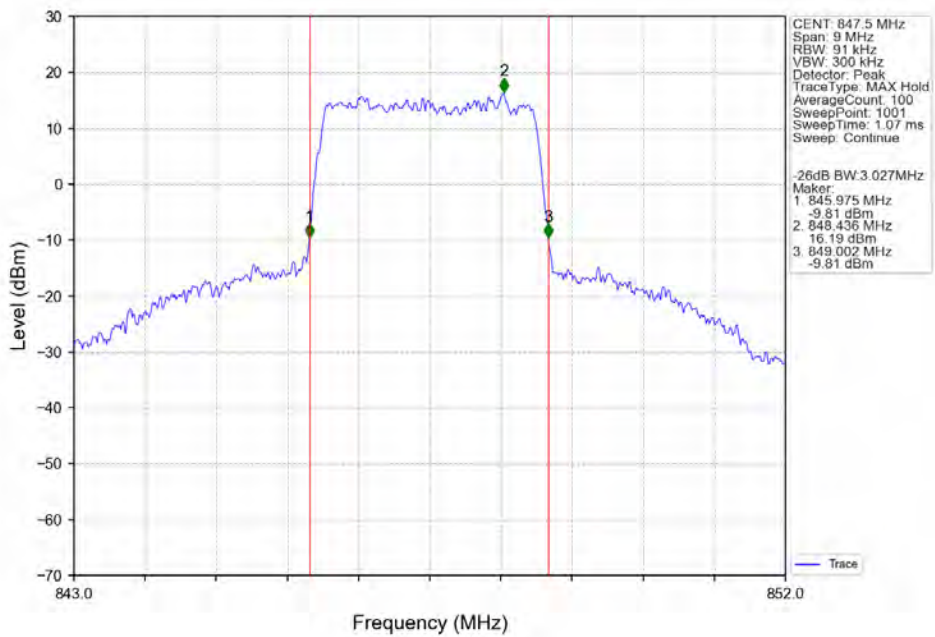
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



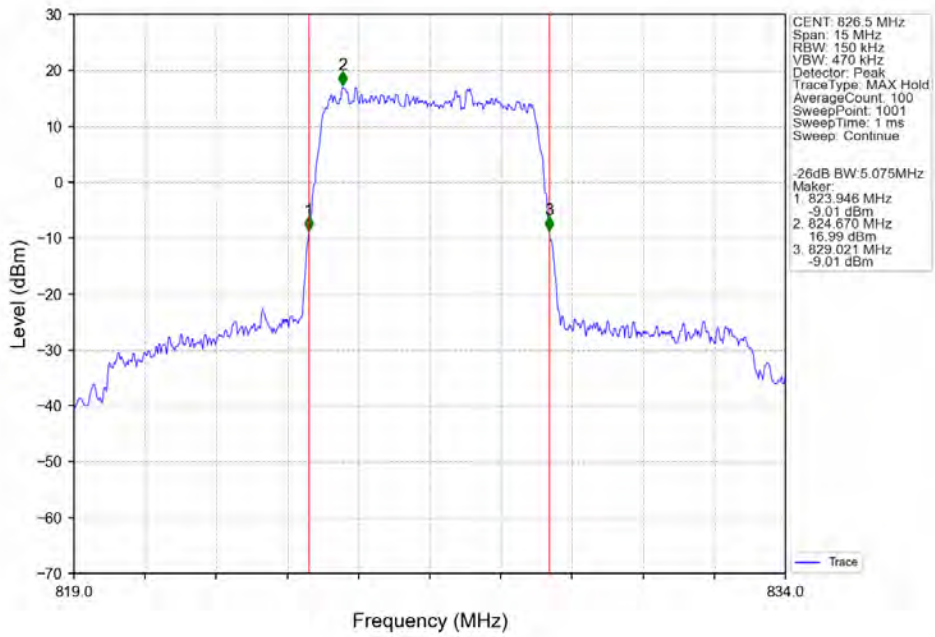
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



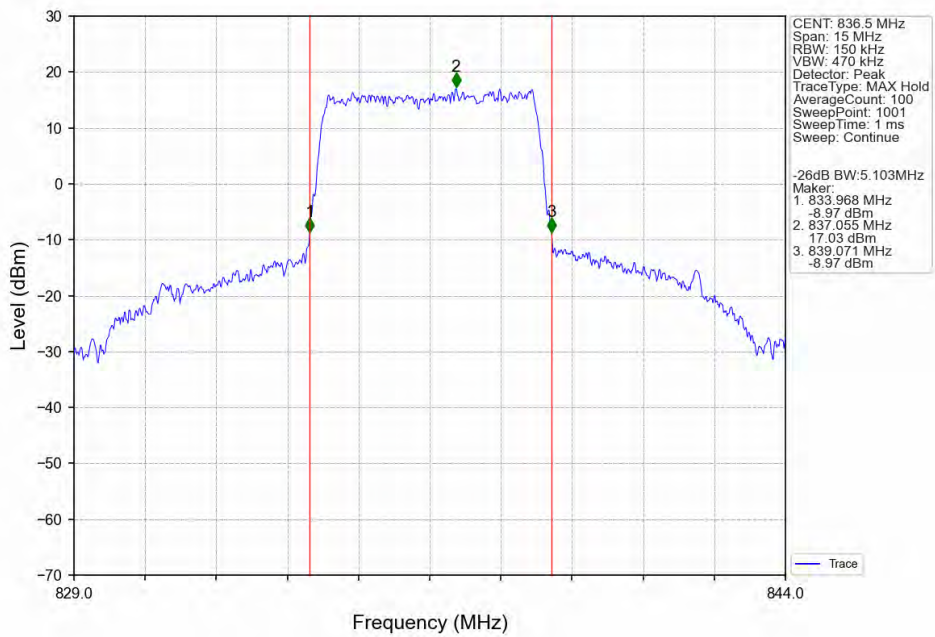
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



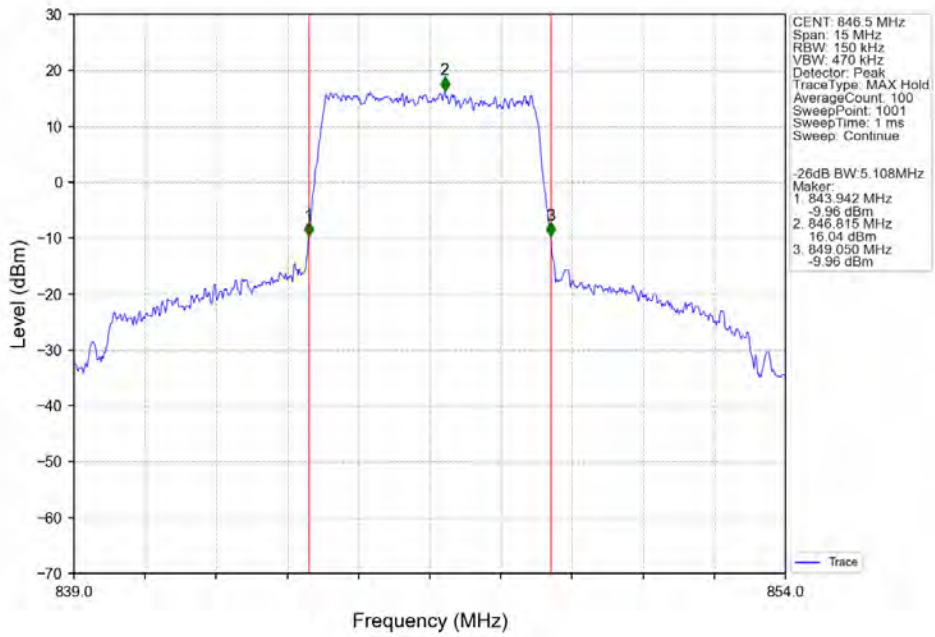
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



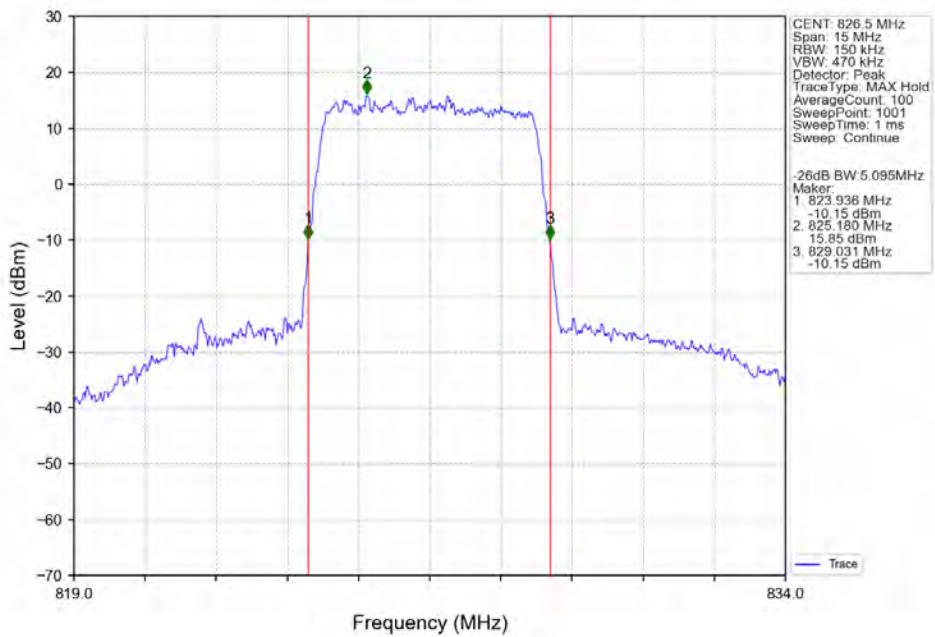
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



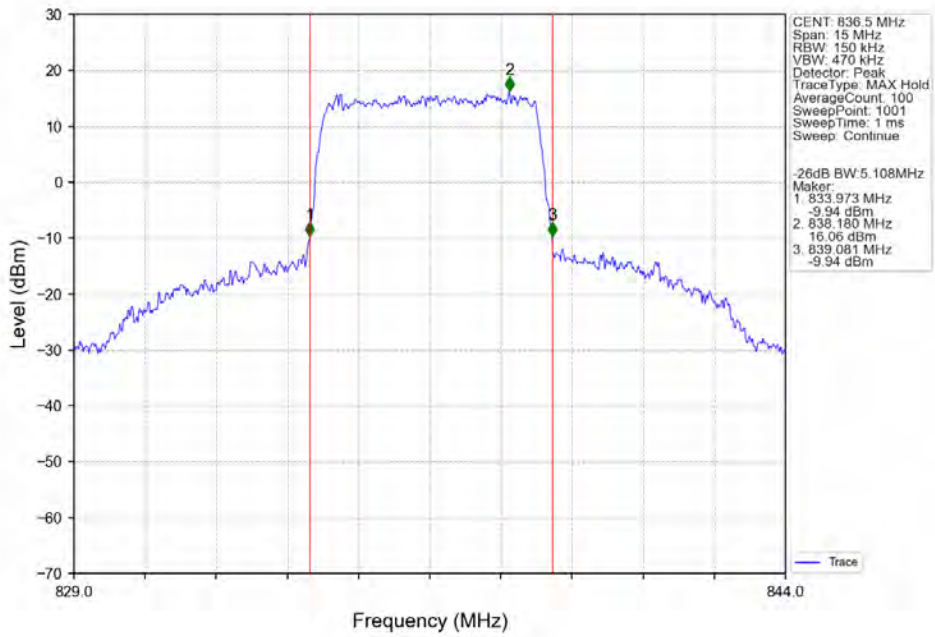
Band5 5MHz QPSK HCH 846.5MHz RB 25 0 NTN



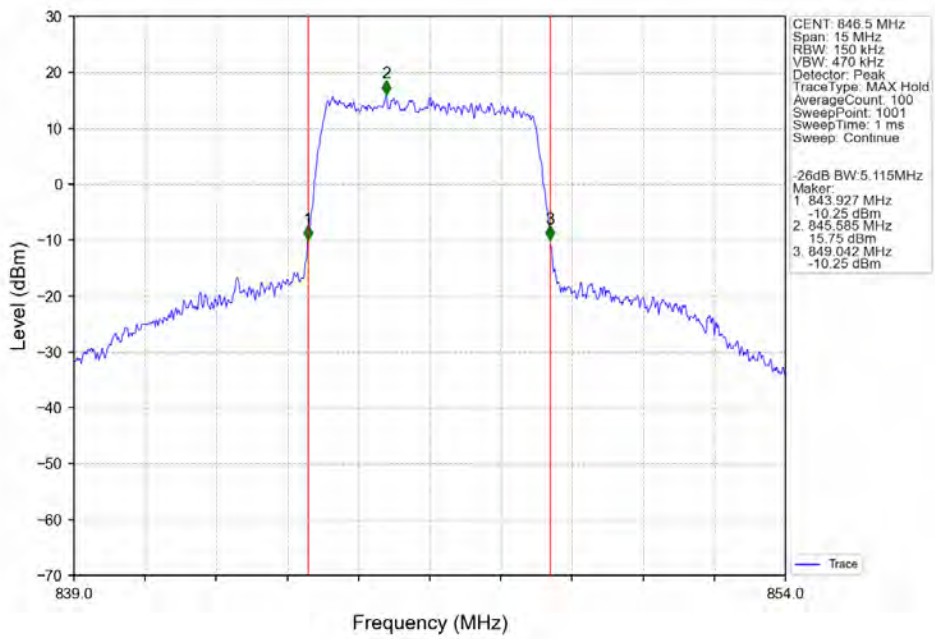
Band5 5MHz 16QAM LCH 826.5MHz RB 25 0 NTN



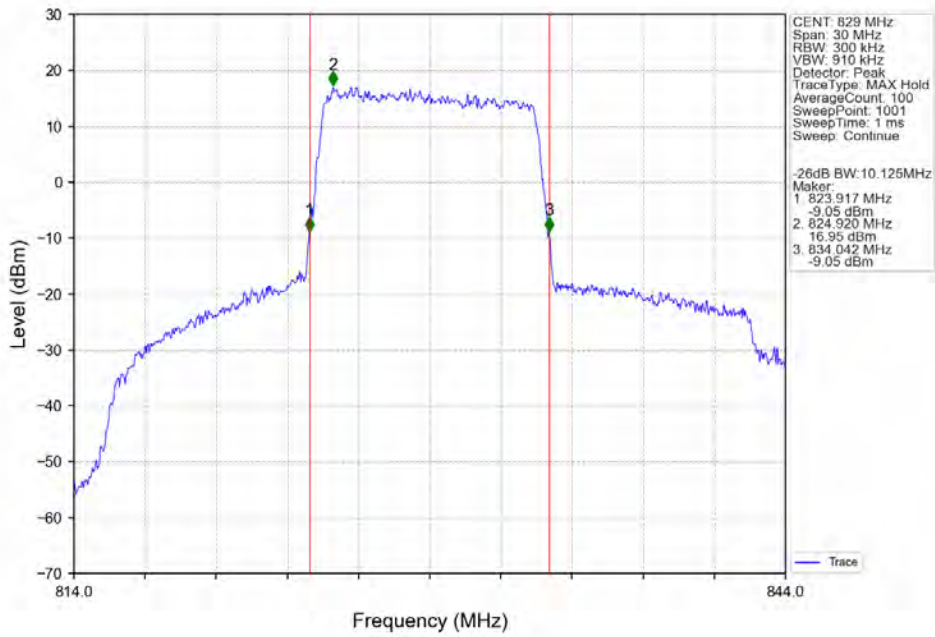
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



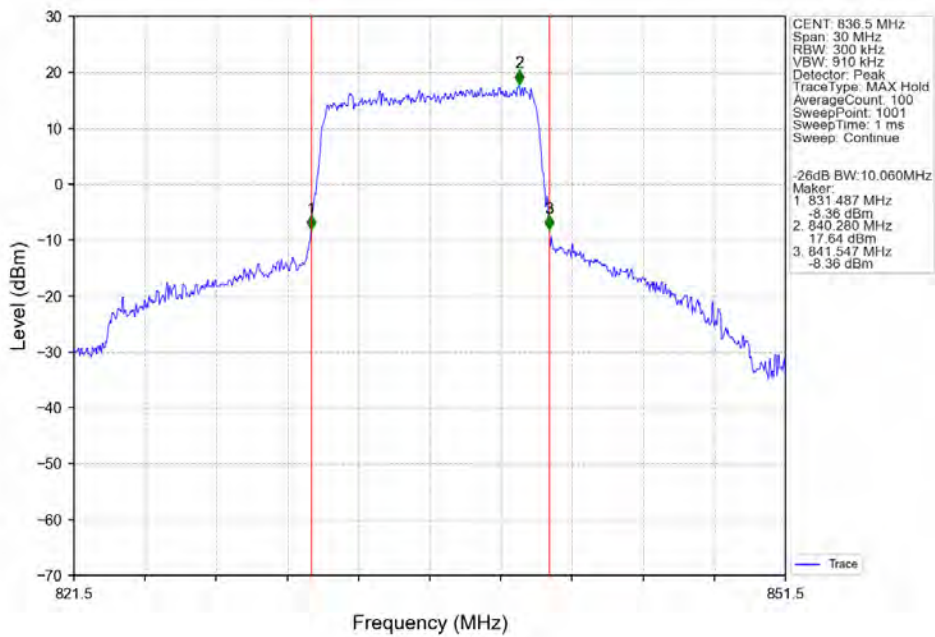
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



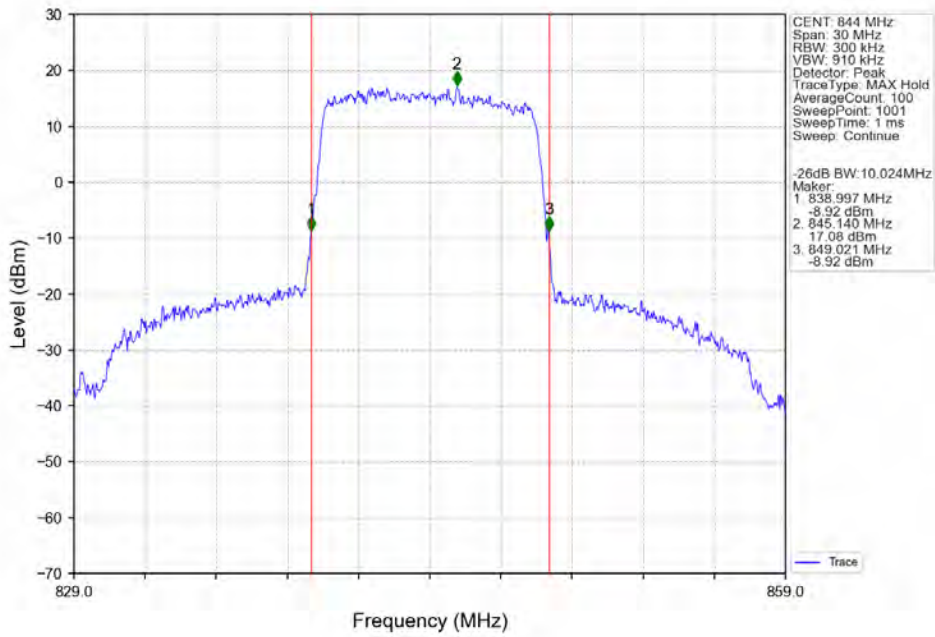
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



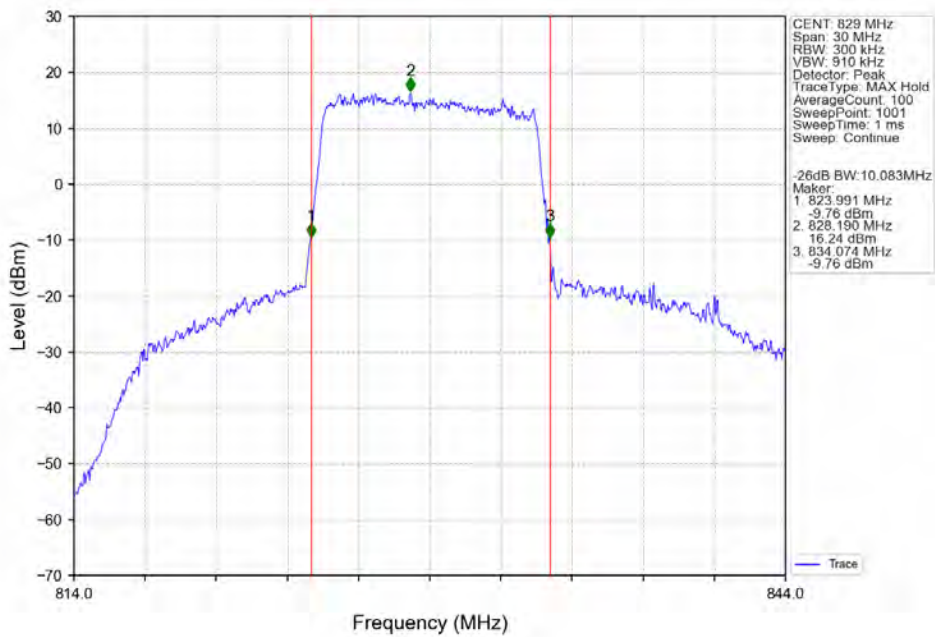
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



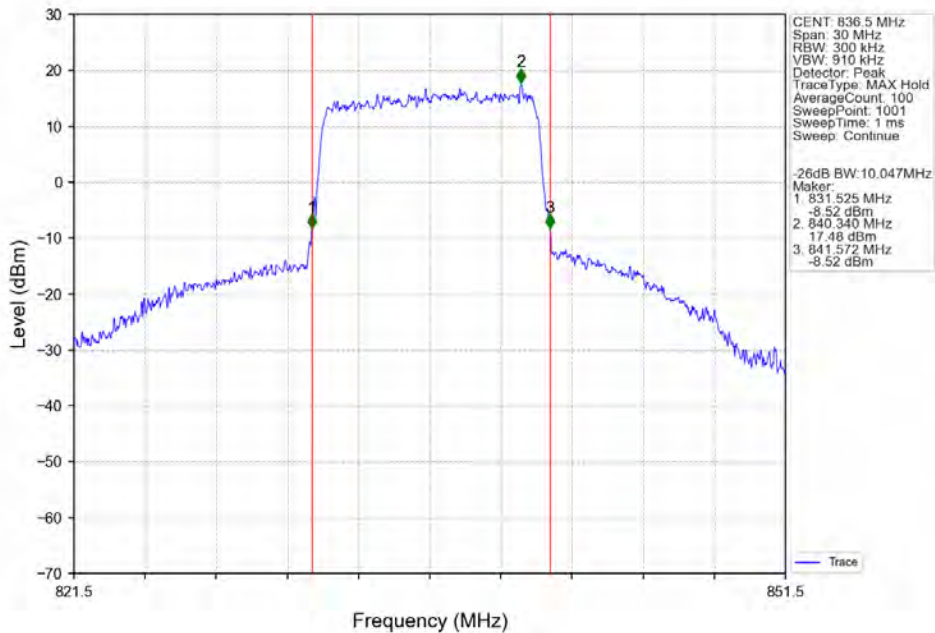
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



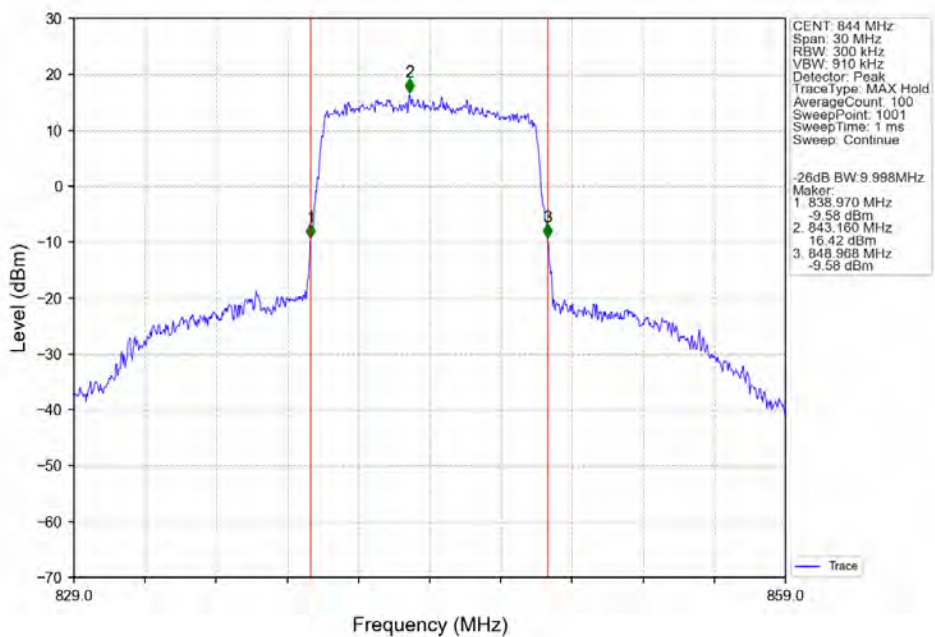
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	5.46	<=13	Pass
	836.5	6	0	6.26	<=13	Pass
	848.3	6	0	6.28	<=13	Pass
16QAM	824.7	6	0	6.35	<=13	Pass
	836.5	6	0	7.18	<=13	Pass
	848.3	6	0	7.18	<=13	Pass

4.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.54	<=13	Pass
	836.5	15	0	6.31	<=13	Pass
	847.5	15	0	6.32	<=13	Pass
16QAM	825.5	15	0	6.39	<=13	Pass
	836.5	15	0	7.24	<=13	Pass
	847.5	15	0	7.22	<=13	Pass

4.1.3 B5_5MHz

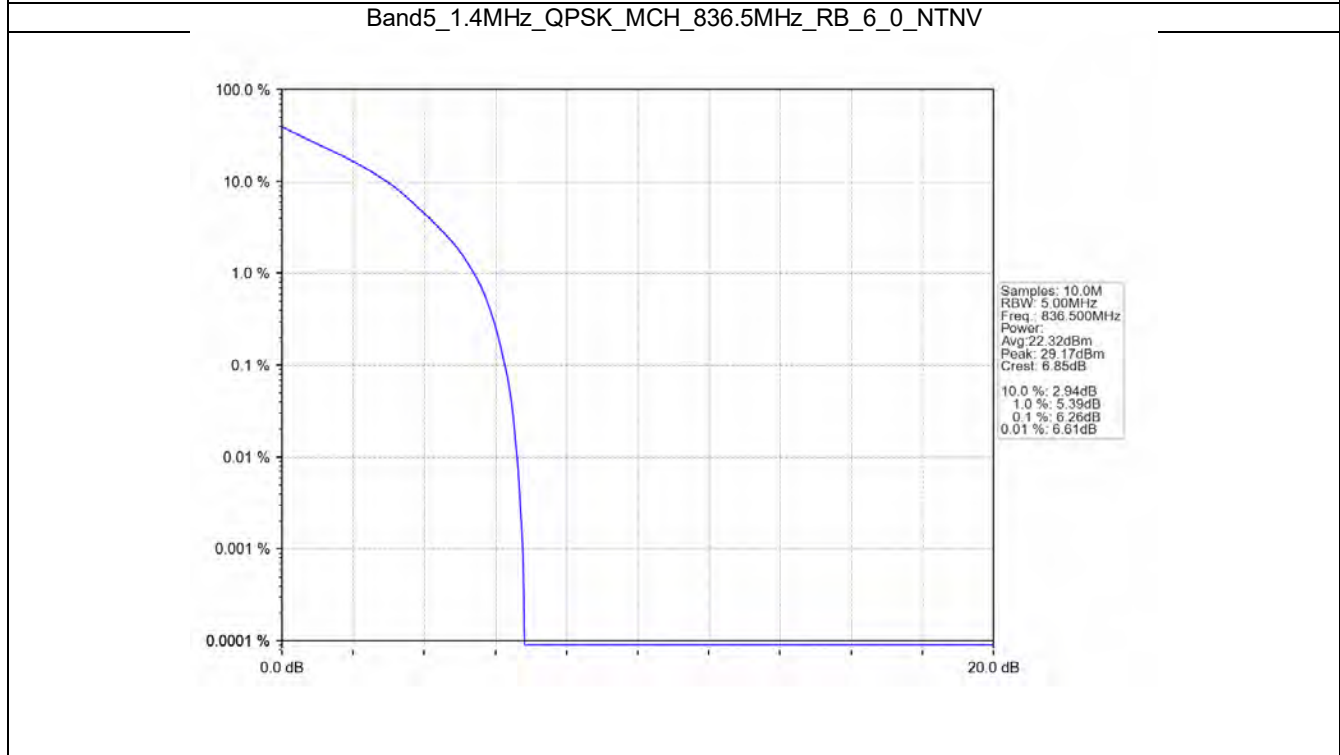
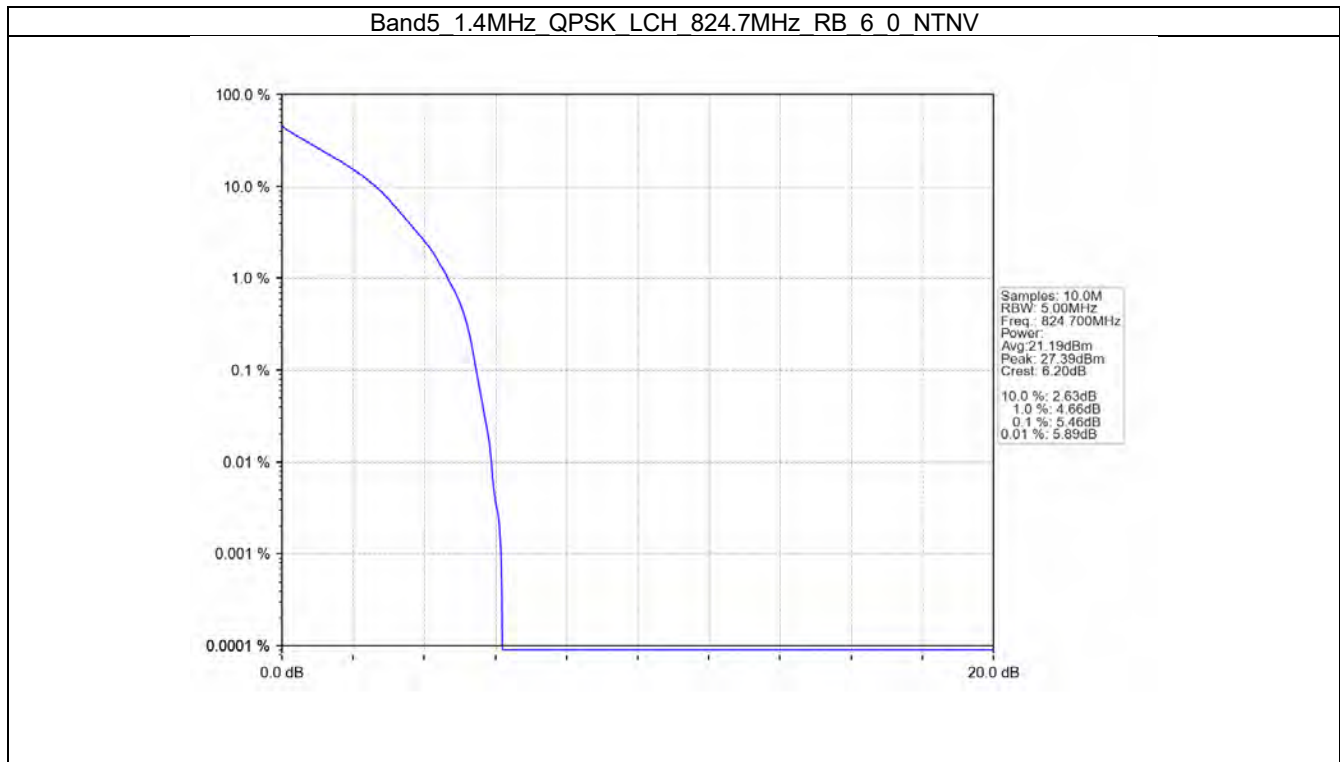
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.51	<=13	Pass
	836.5	25	0	6.04	<=13	Pass
	846.5	25	0	5.91	<=13	Pass
16QAM	826.5	25	0	6.31	<=13	Pass
	836.5	25	0	6.95	<=13	Pass
	846.5	25	0	6.76	<=13	Pass

4.1.4 B5_10MHz

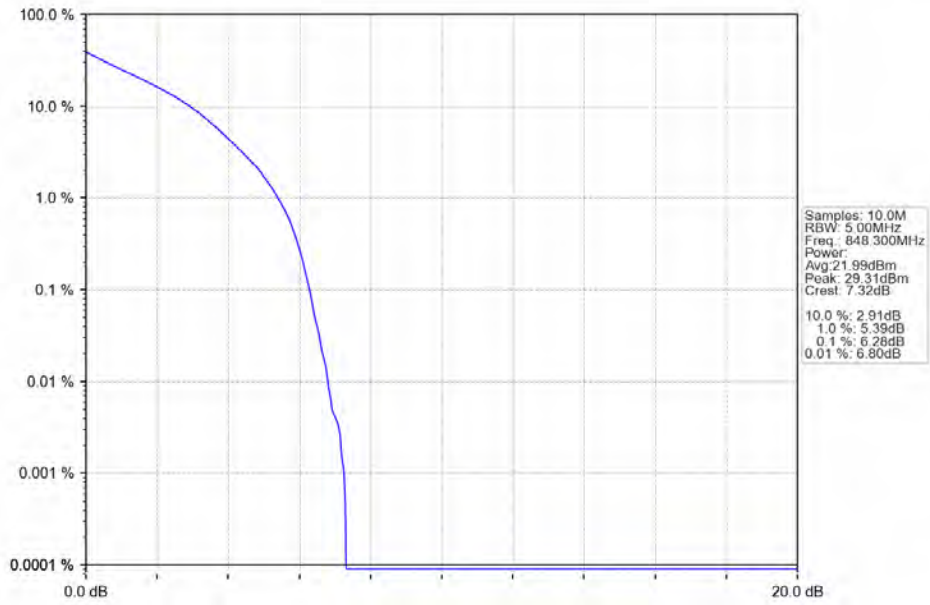
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.75	<=13	Pass
	836.5	50	0	5.96	<=13	Pass
	844	50	0	5.62	<=13	Pass
16QAM	829	50	0	6.57	<=13	Pass
	836.5	50	0	6.88	<=13	Pass
	844	50	0	6.50	<=13	Pass

4.2 Test Graph

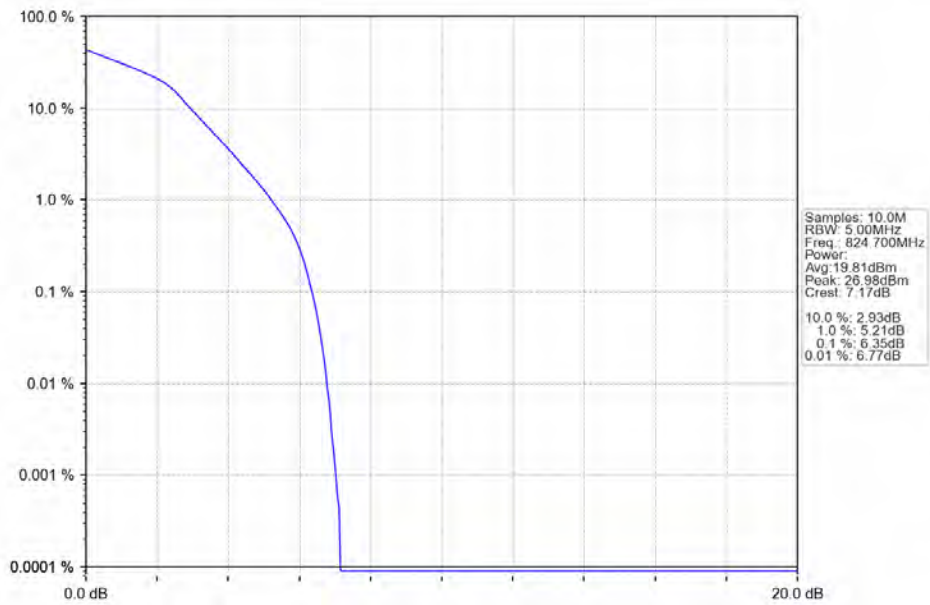
4.2.1 B5_1.4MHz



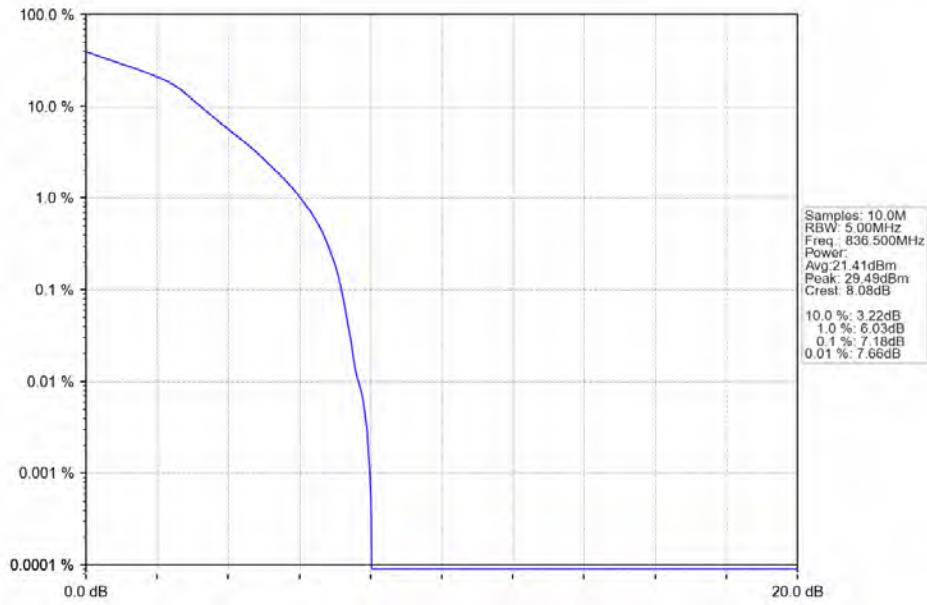
Band5 1.4MHz QPSK HCH 848.3MHz RB 6.0 NTV



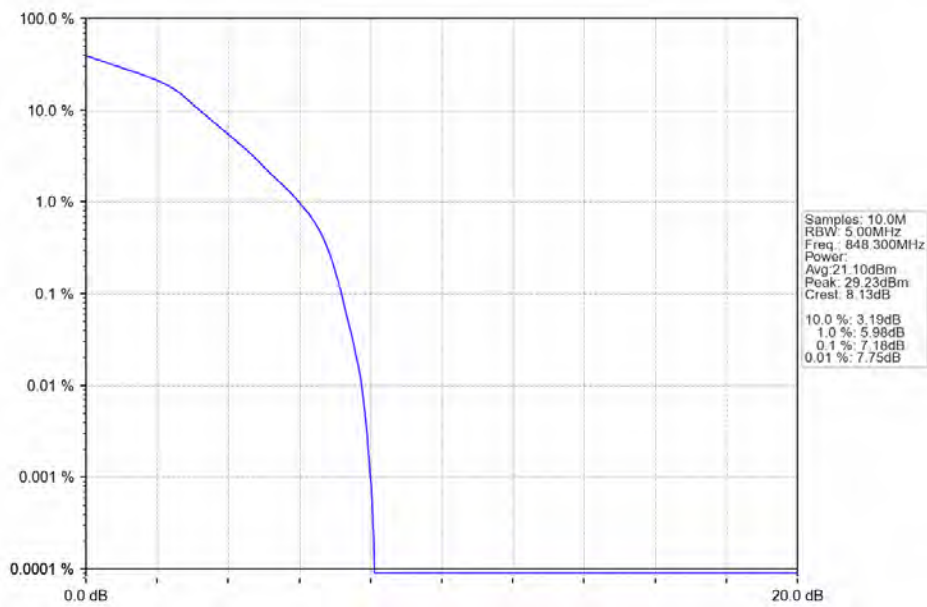
Band5 1.4MHz 16QAM LCH 824.7MHz RB 6.0 NTV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

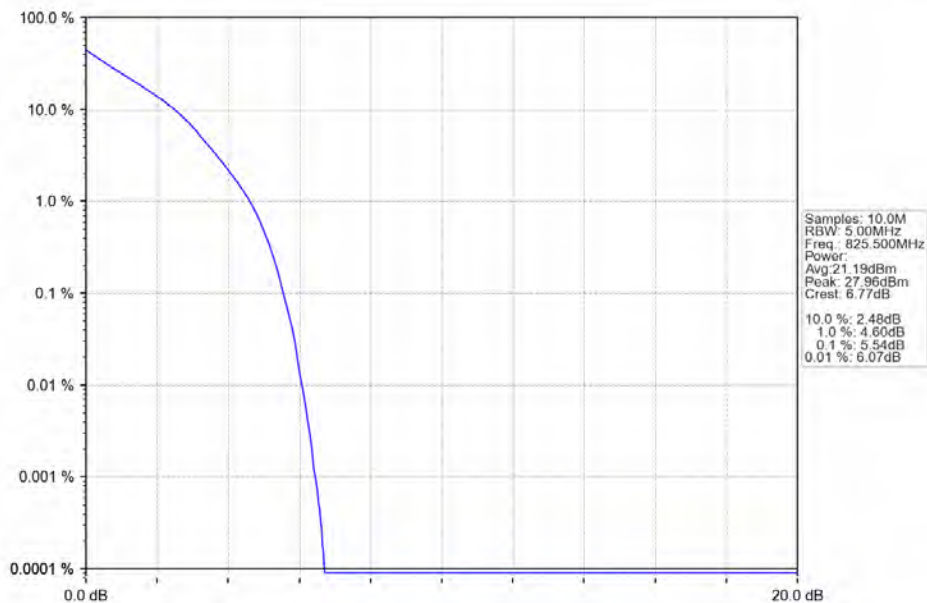


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

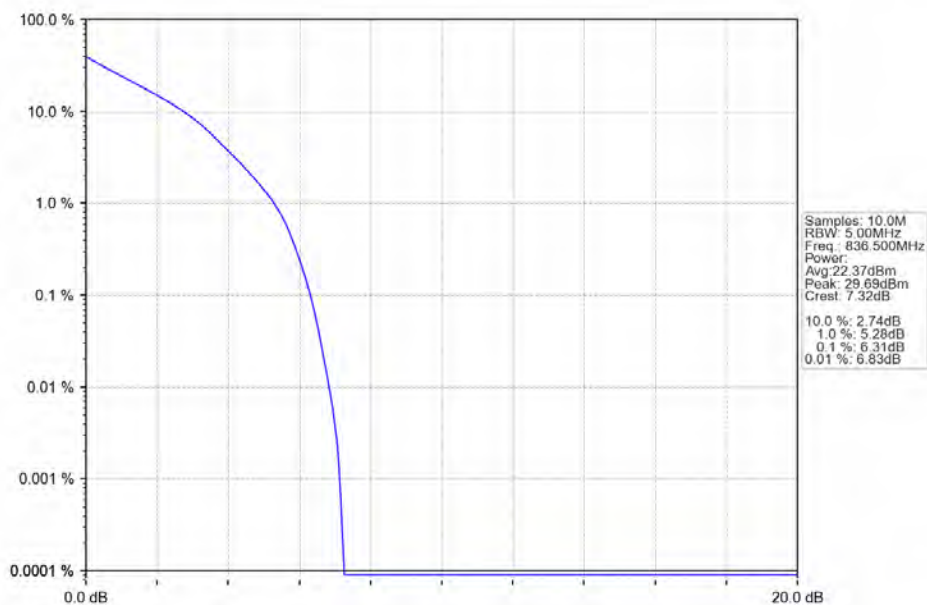


4.2.2 B5_3MHz

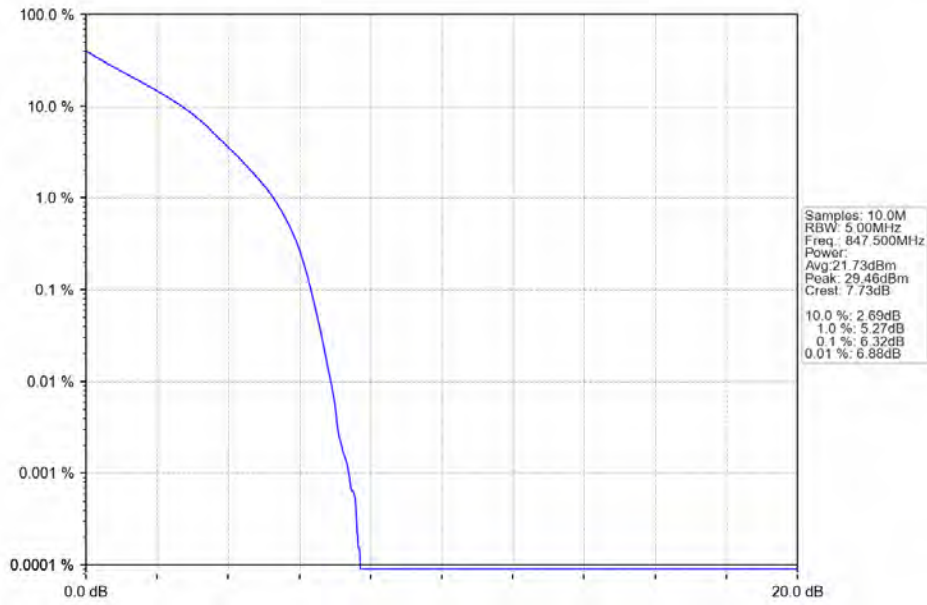
Band5 3MHz QPSK LCH 825.5MHz RB 15 0 NTNV



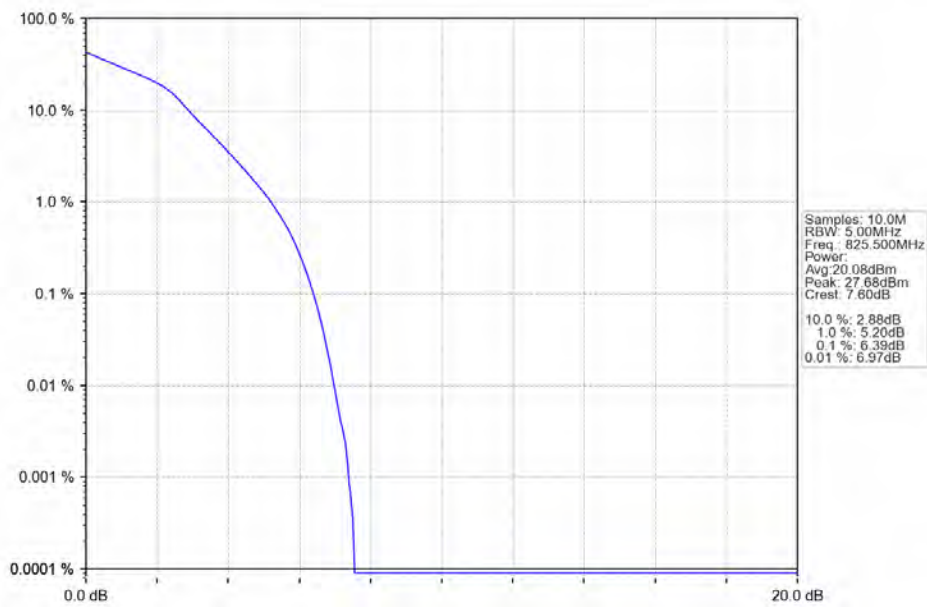
Band5 3MHz QPSK MCH 836.5MHz RB 15 0 NTNV



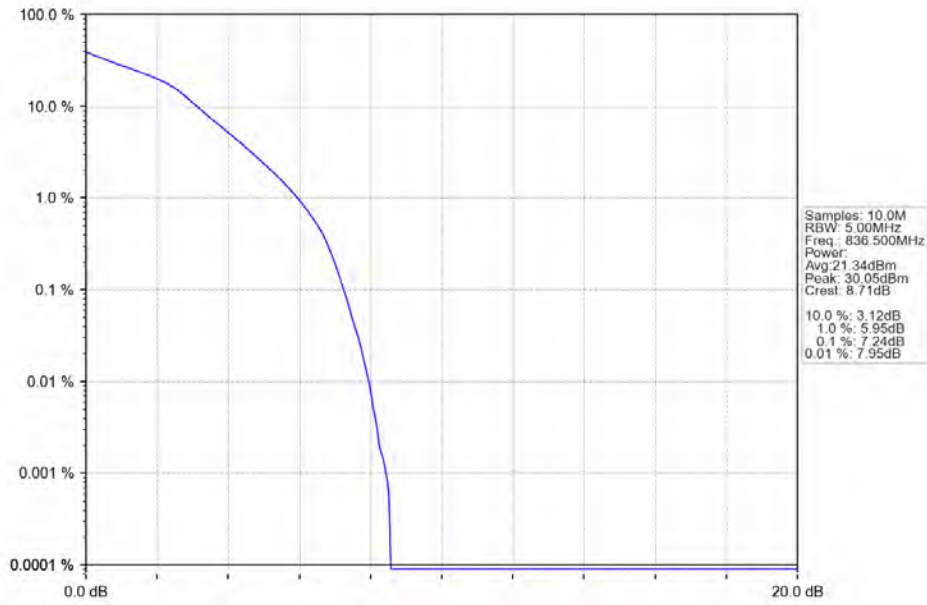
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



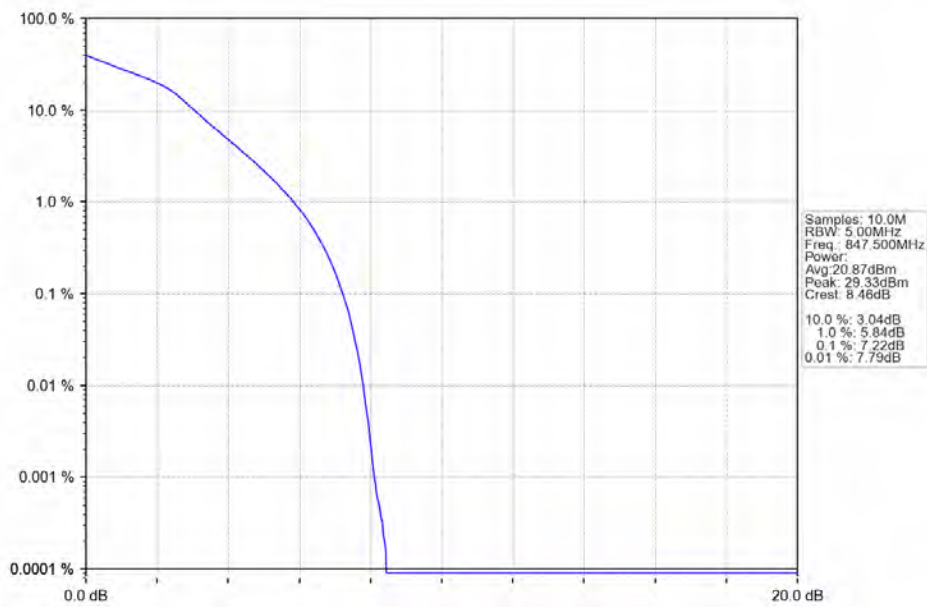
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

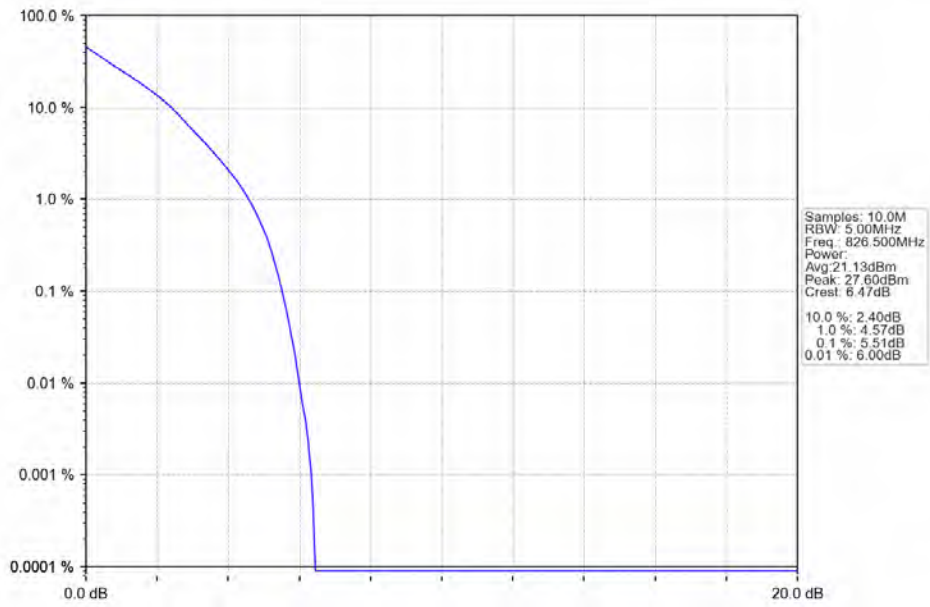


Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

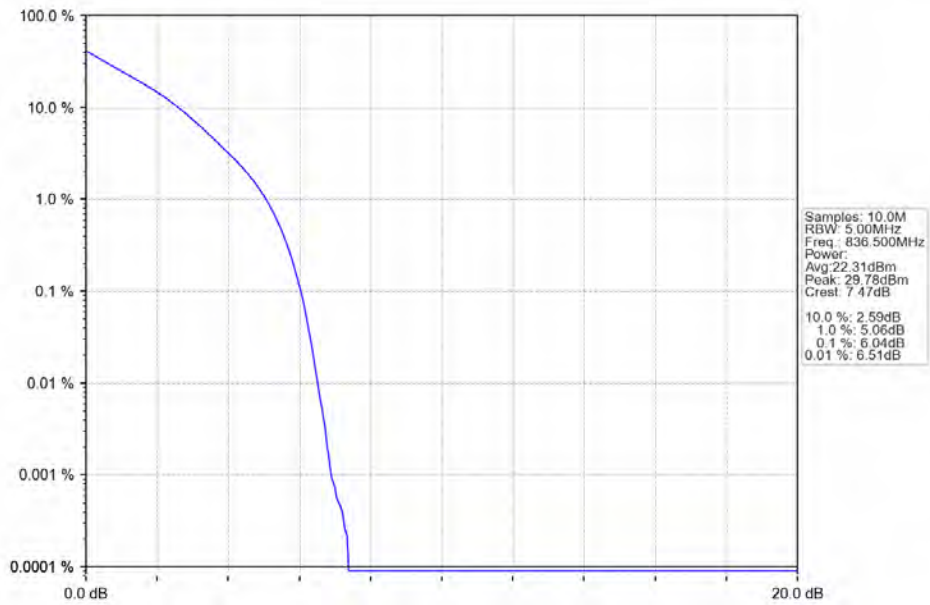


4.2.3 B5_5MHz

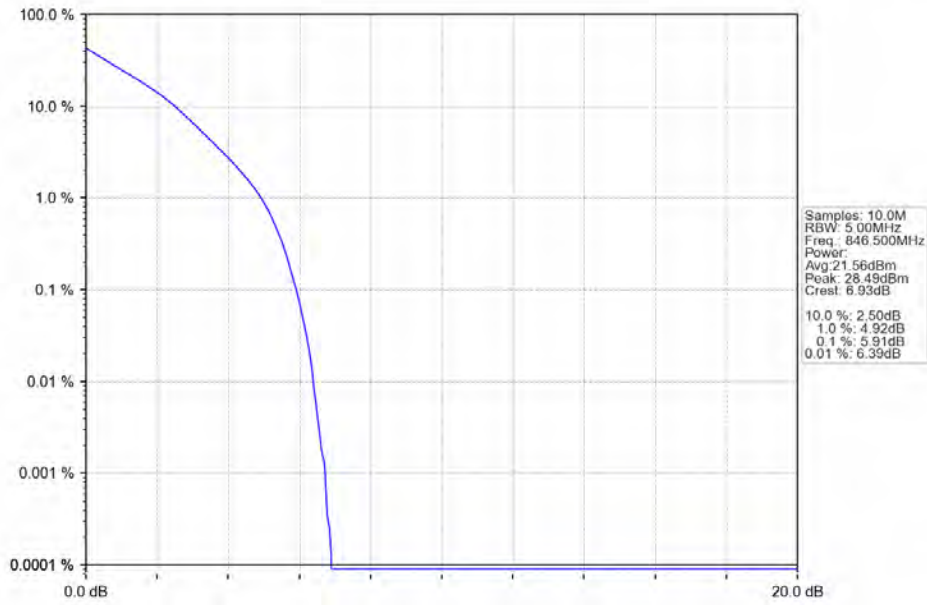
Band5_5MHz QPSK LCH 826.5MHz RB 25 0 NTNV



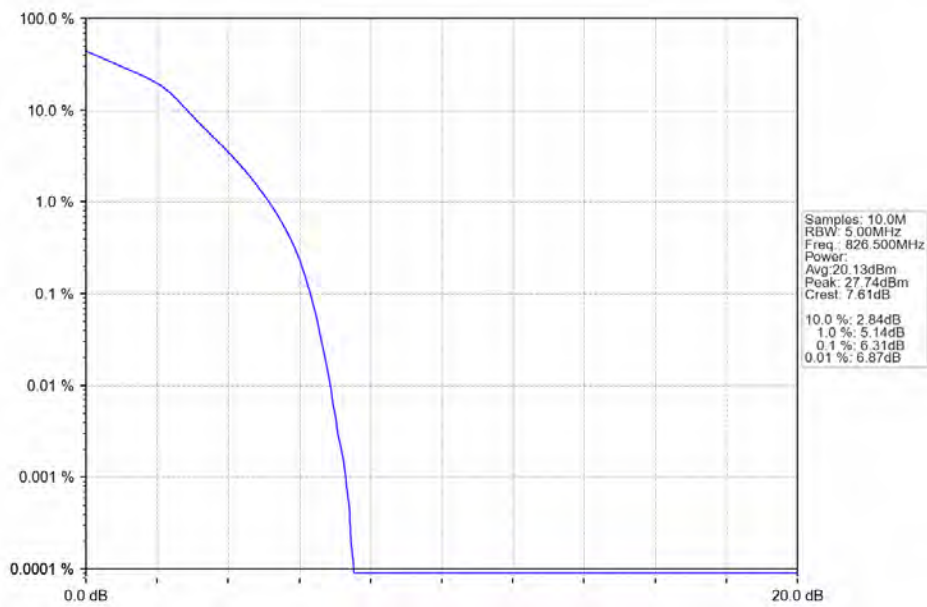
Band5_5MHz QPSK MCH 836.5MHz RB 25 0 NTNV



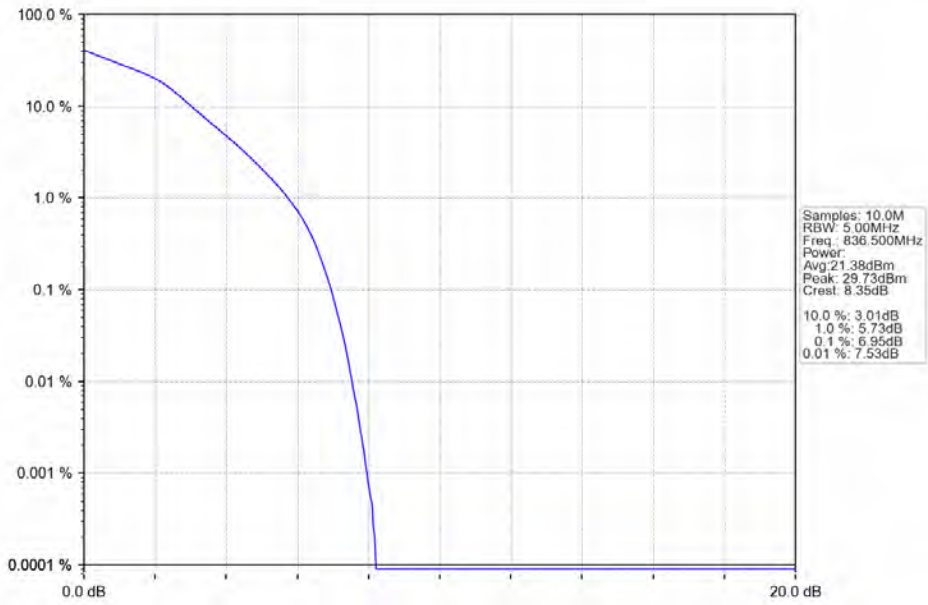
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



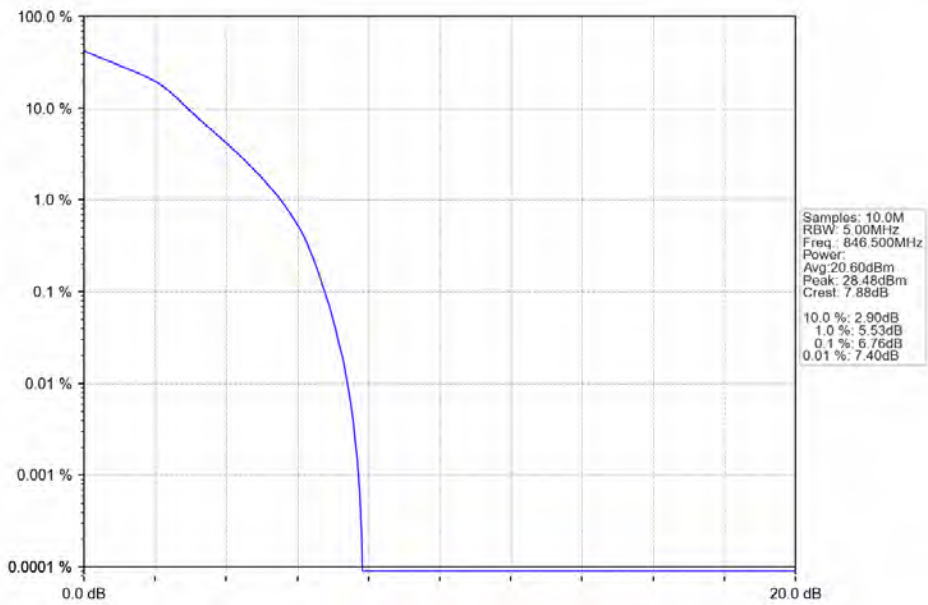
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV

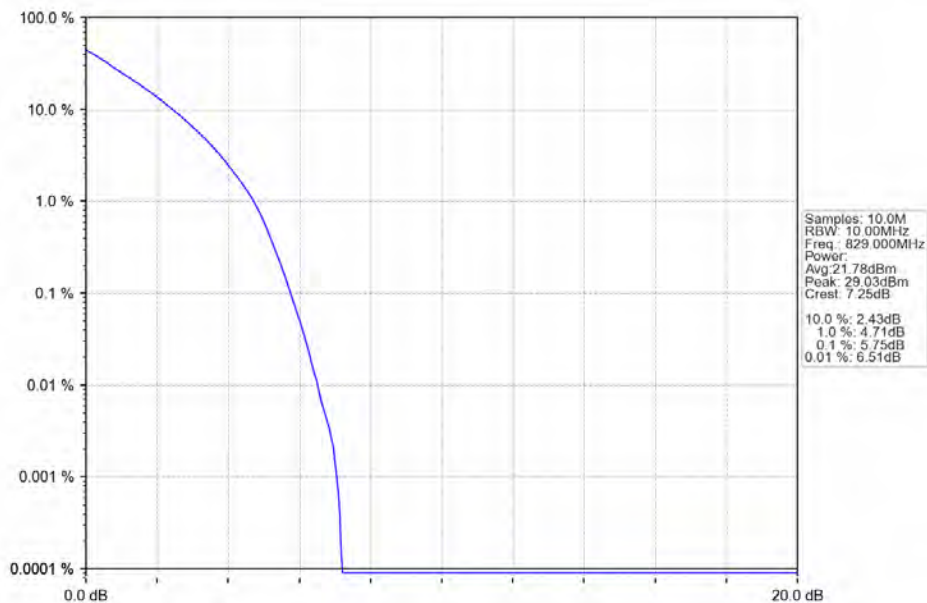


Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV

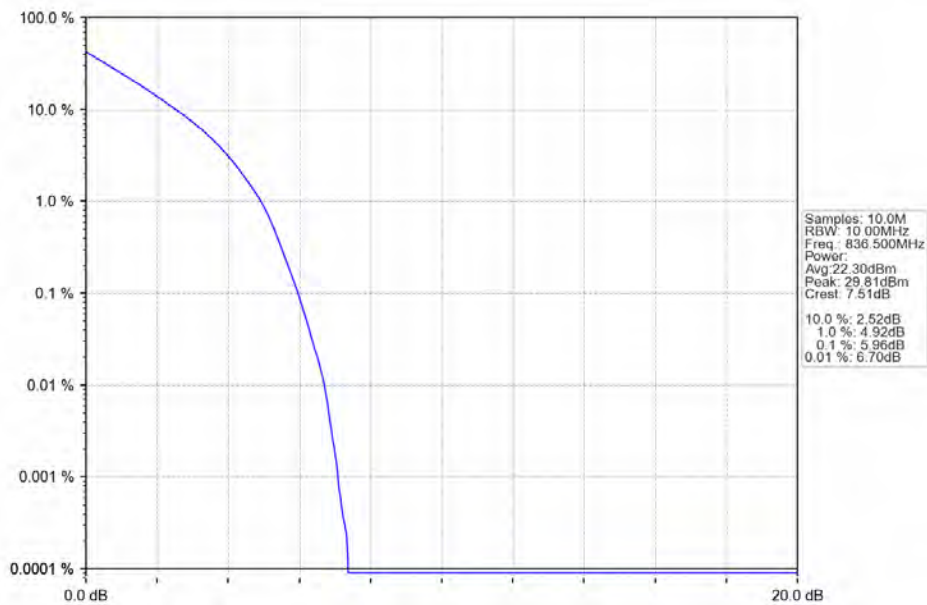


4.2.4 B5_10MHz

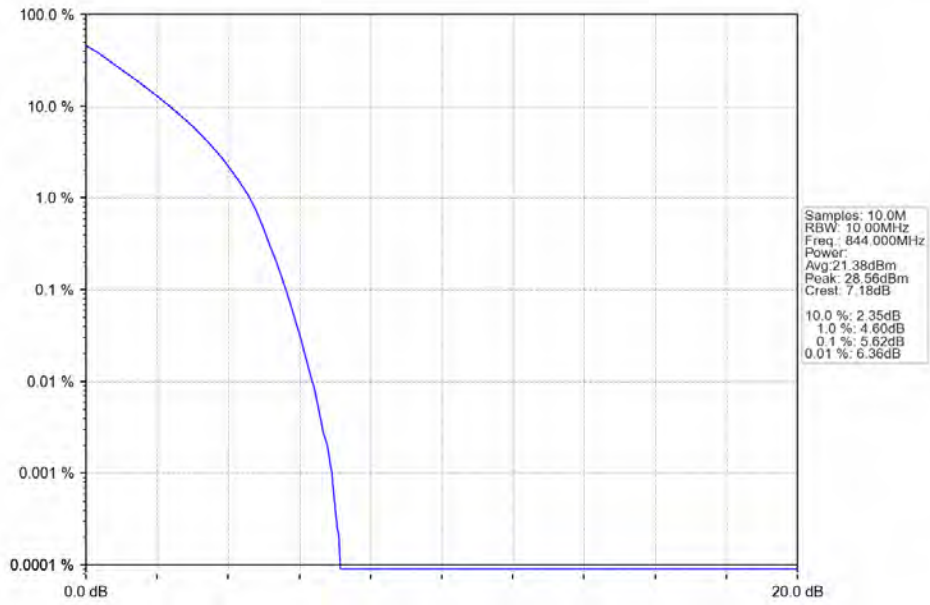
Band5 10MHz QPSK LCH 829MHz RB 50 0 NTV



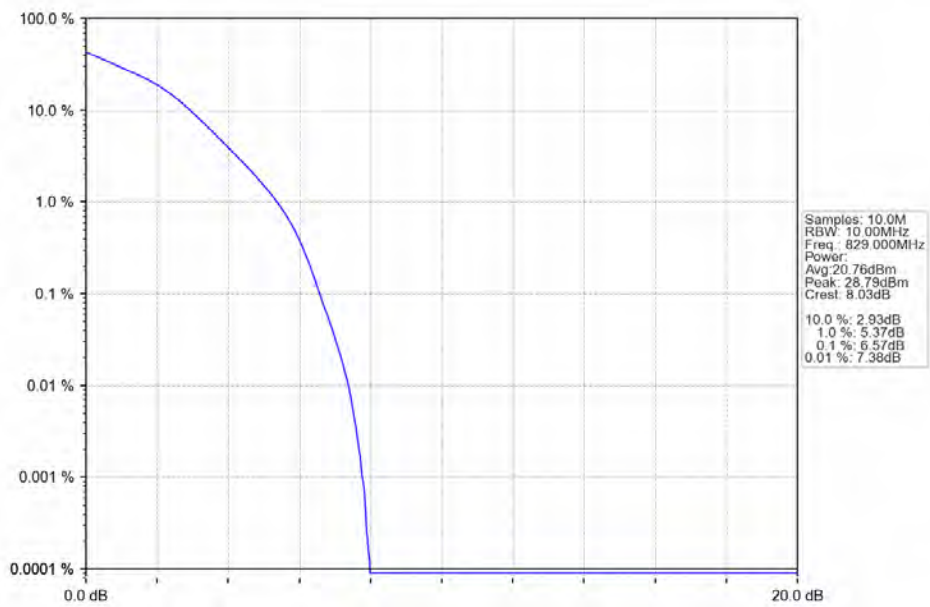
Band5 10MHz QPSK MCH 836.5MHz RB 50 0 NTV



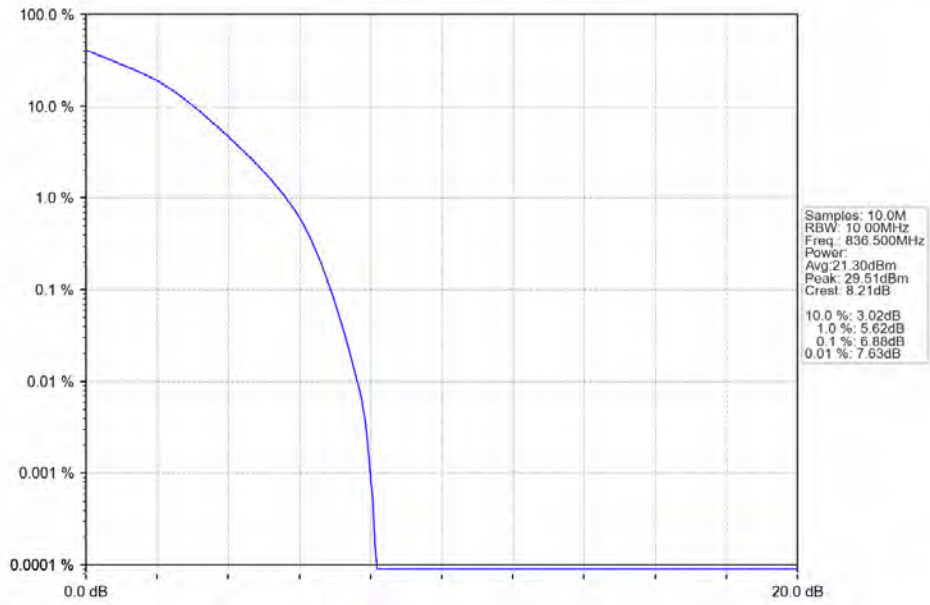
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



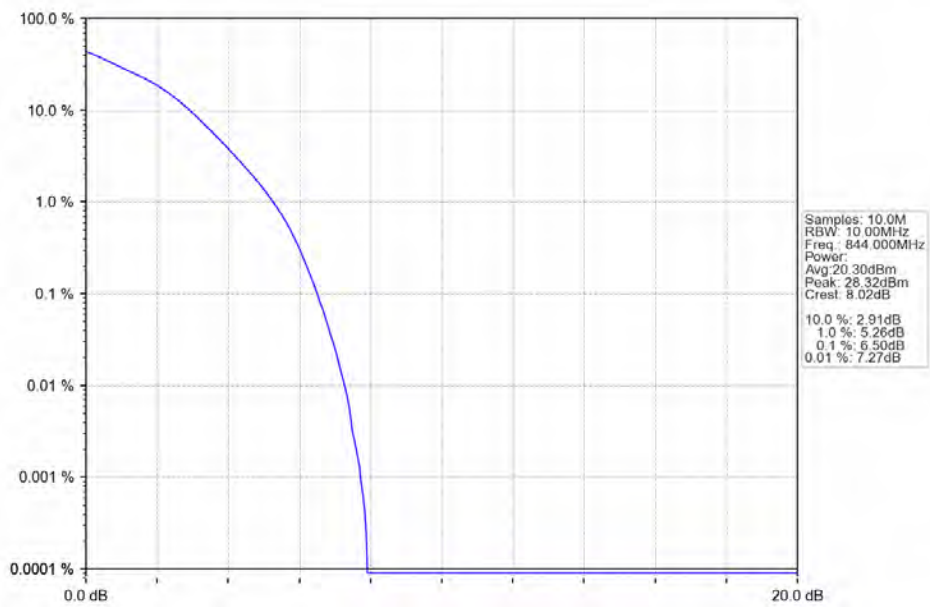
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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

5.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTV						
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
	847.5	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

5.1.3 B5_5MHz

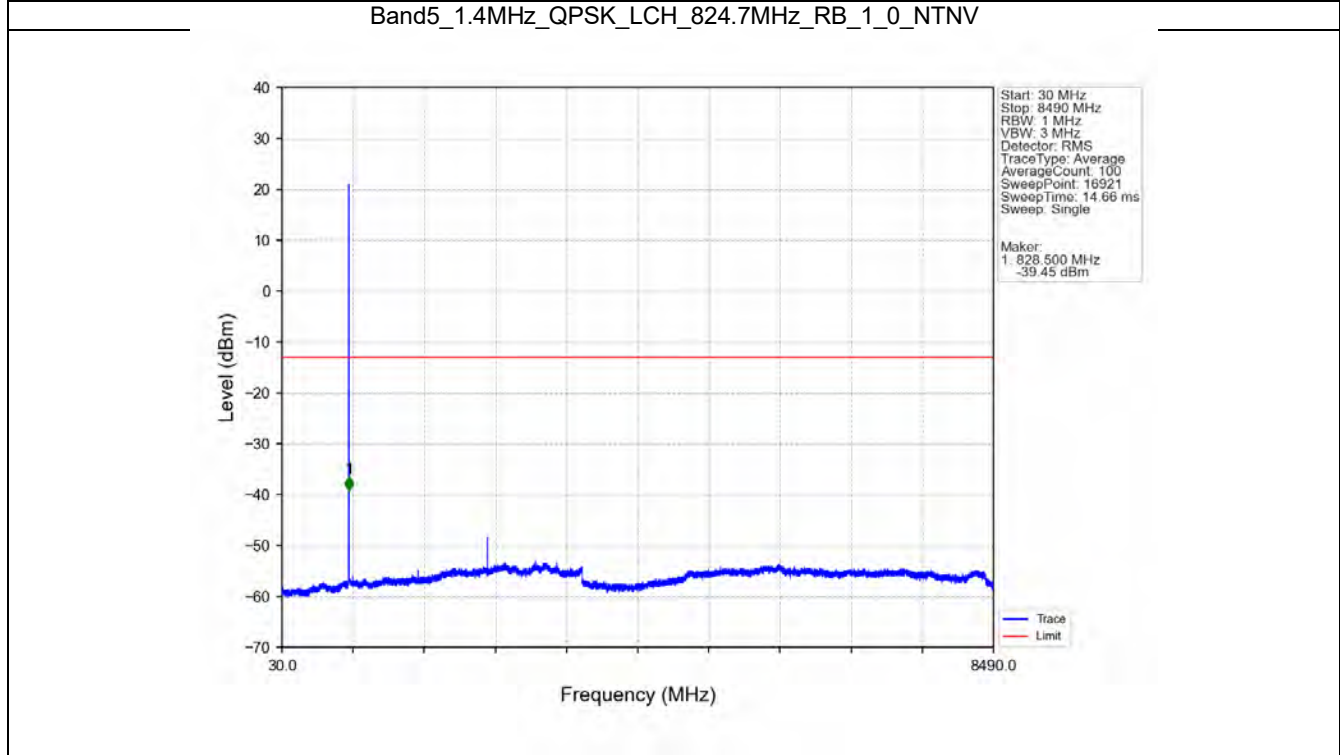
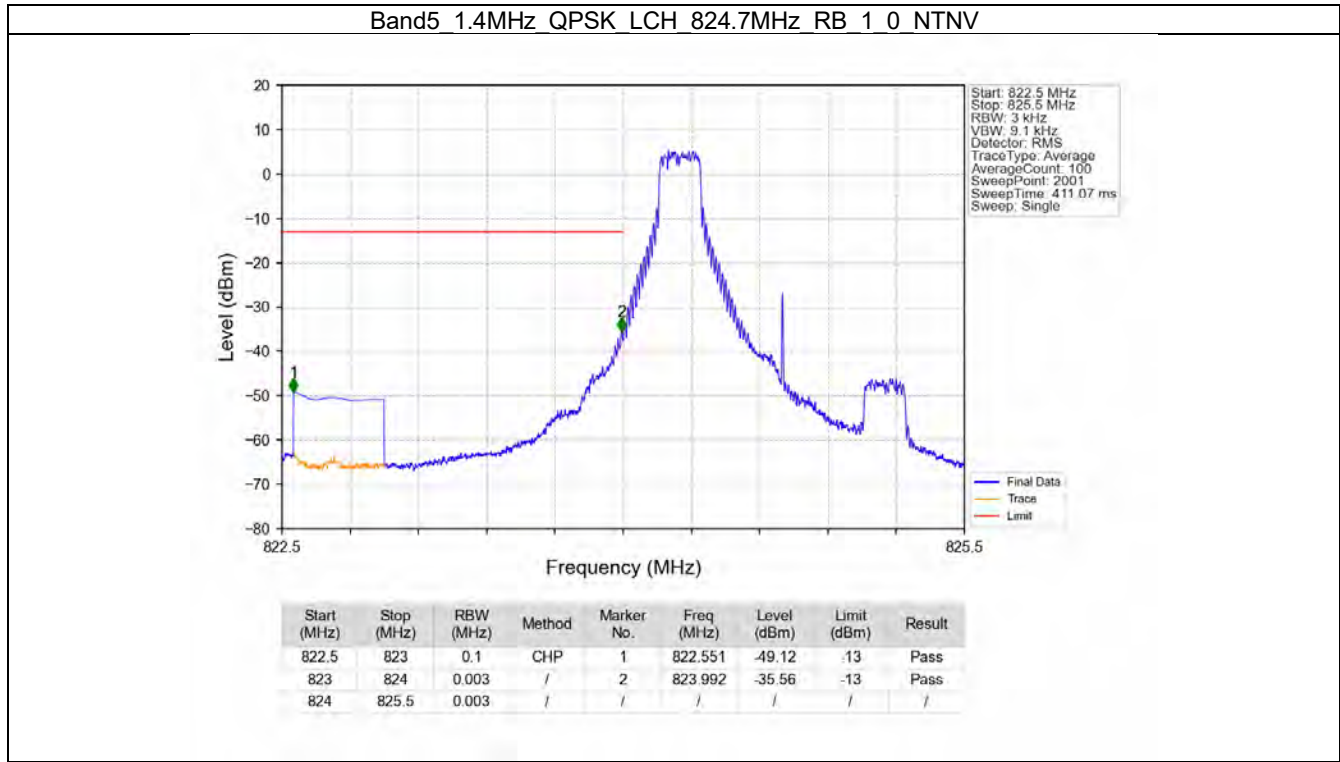
Band: 5 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	846.5	1	24	Refer To Test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

5.1.4 B5_10MHz

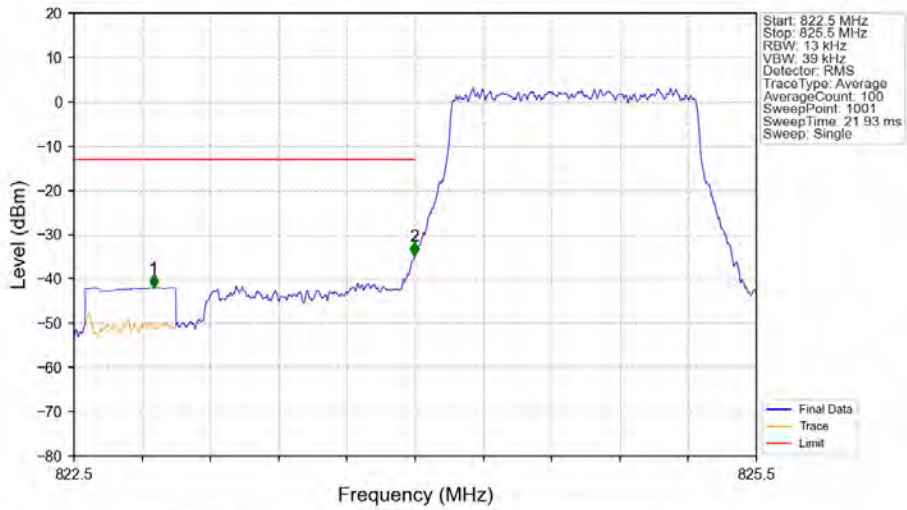
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	844	1	49	Refer To Test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

5.2 Test Graph

5.2.1 B5_1.4MHz

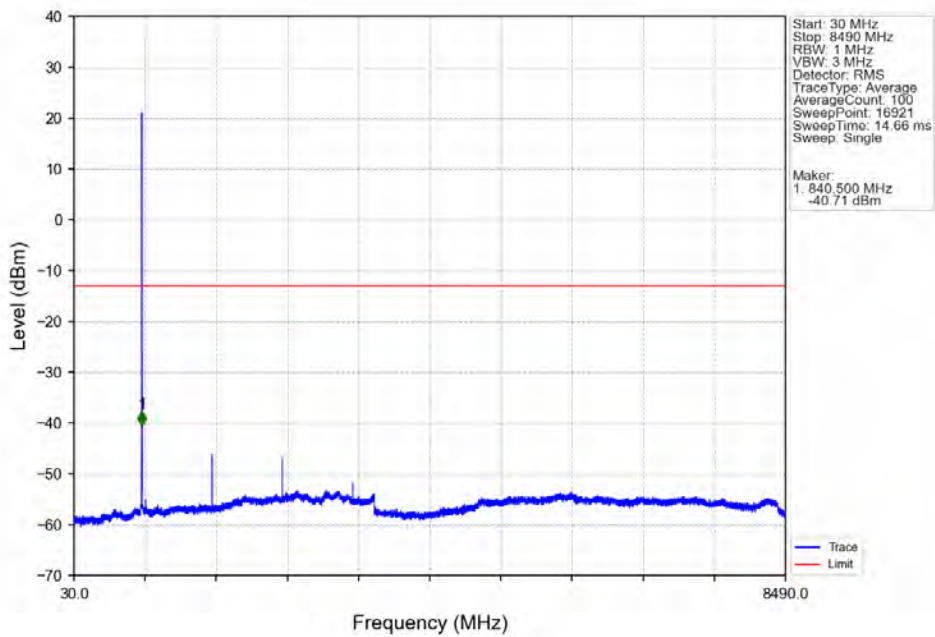


Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTV

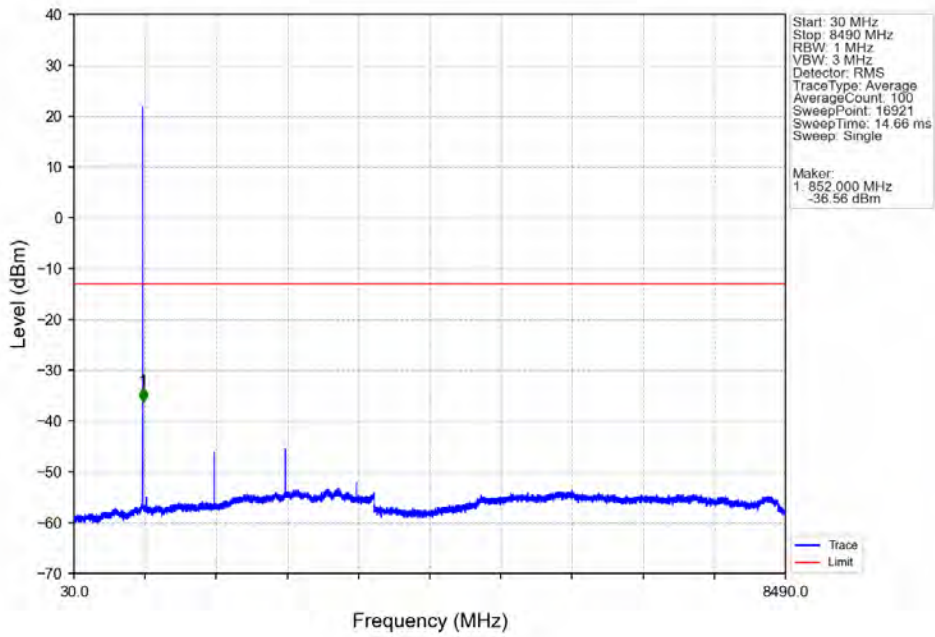


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.851	-41.98	-13	Pass
823	824	0.013	/	2	823.997	-34.84	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

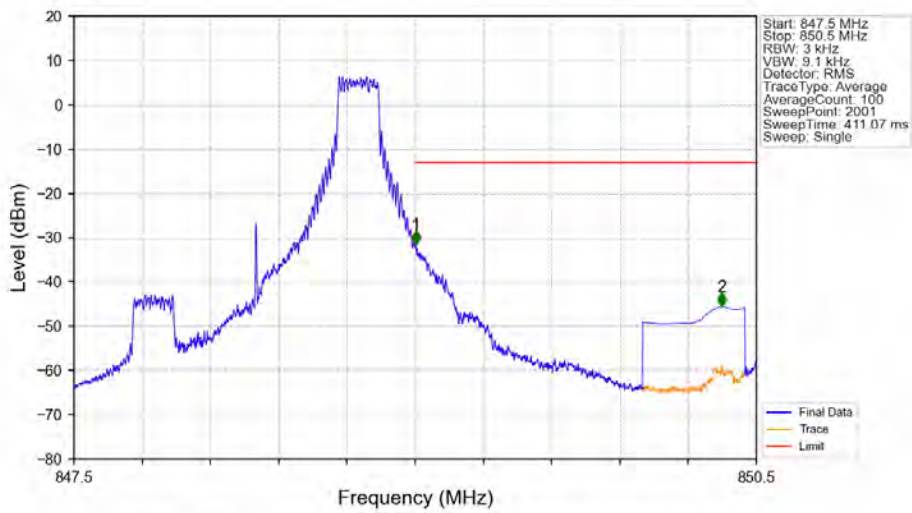
Band5 1.4MHz QPSK MCH 836.5MHz RB 1 0 NTV



Band5 1.4MHz QPSK HCH 848.3MHz RB 1 0 NTVV

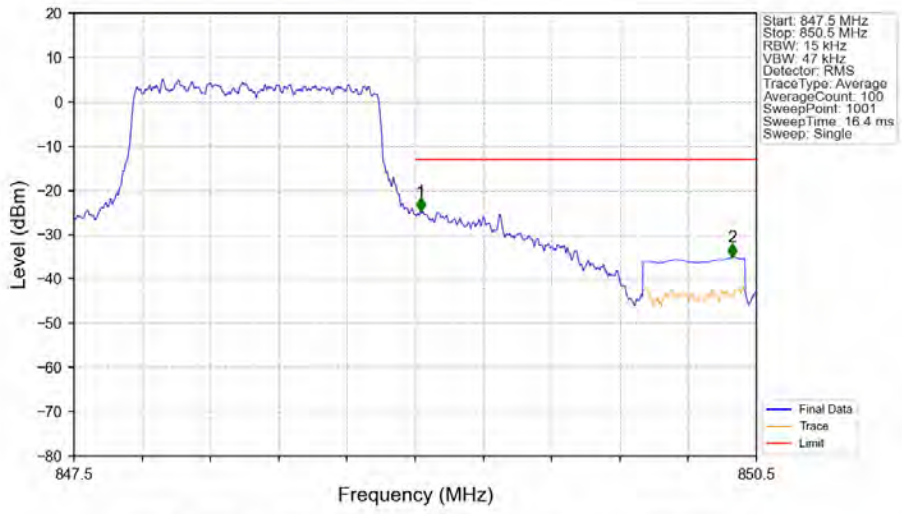


Band5 1.4MHz QPSK HCH 848.3MHz RB 1 5 NTVV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-31.46	-13	Pass
850	850.5	0.1	CHP	2	850.347	-45.54	-13	Pass

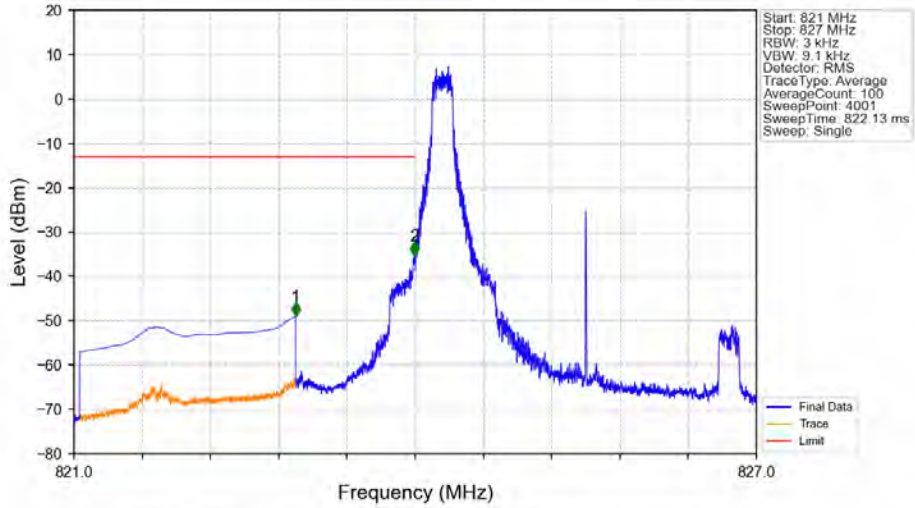
Band5 1.4MHz QPSK HCH 848.3MHz RB 6.0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.015	/	/	/	/	/	/
849	850	0.015	/	1	849.024	-24.78	-13	Pass
850	850.5	0.1	CHP	2	850.395	-35.05	-13	Pass

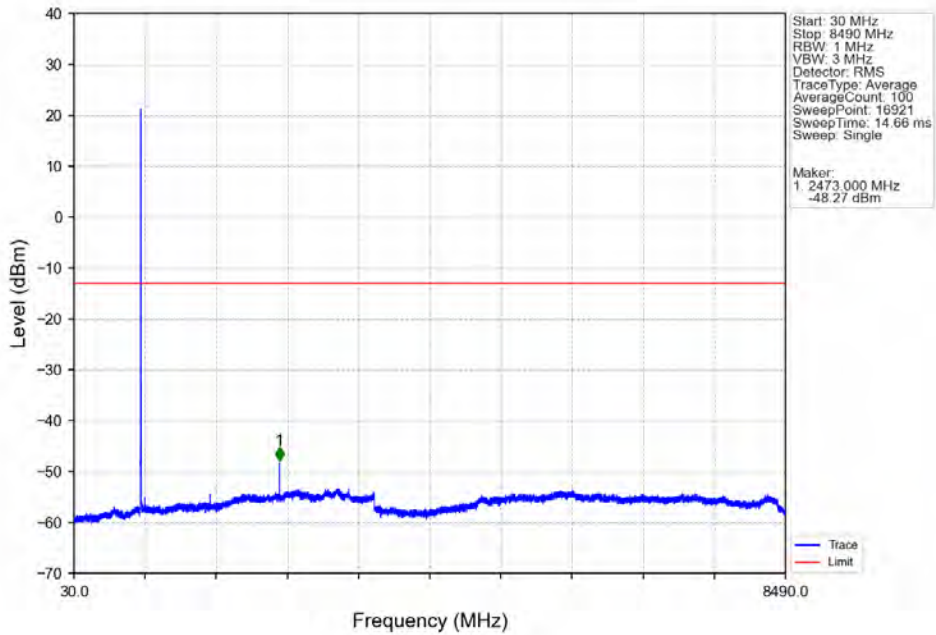
5.2.2 B5_3MHz

Band5 3MHz QPSK LCH 825.5MHz RB 1 0 NTV

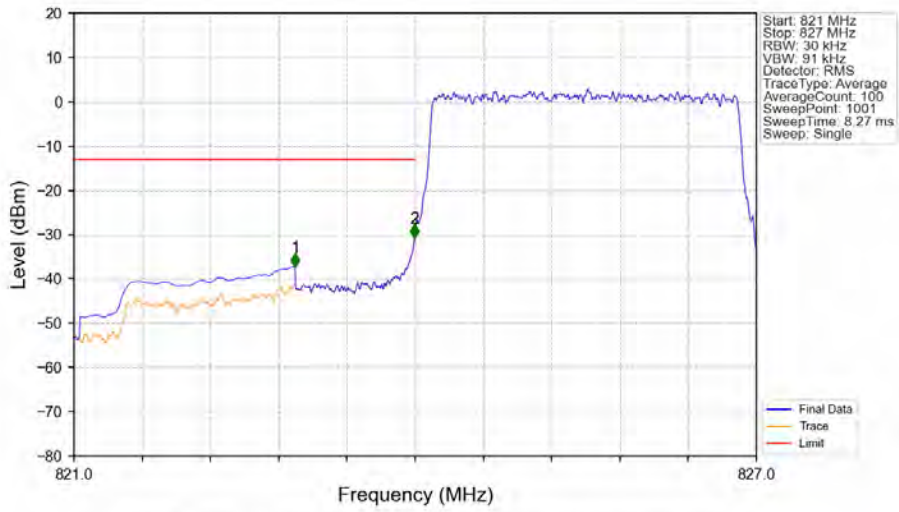


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-48.95	-13	Pass
823	824	0.003	/	2	823.995	-35.30	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5 3MHz QPSK LCH 825.5MHz RB 1 0 NTV

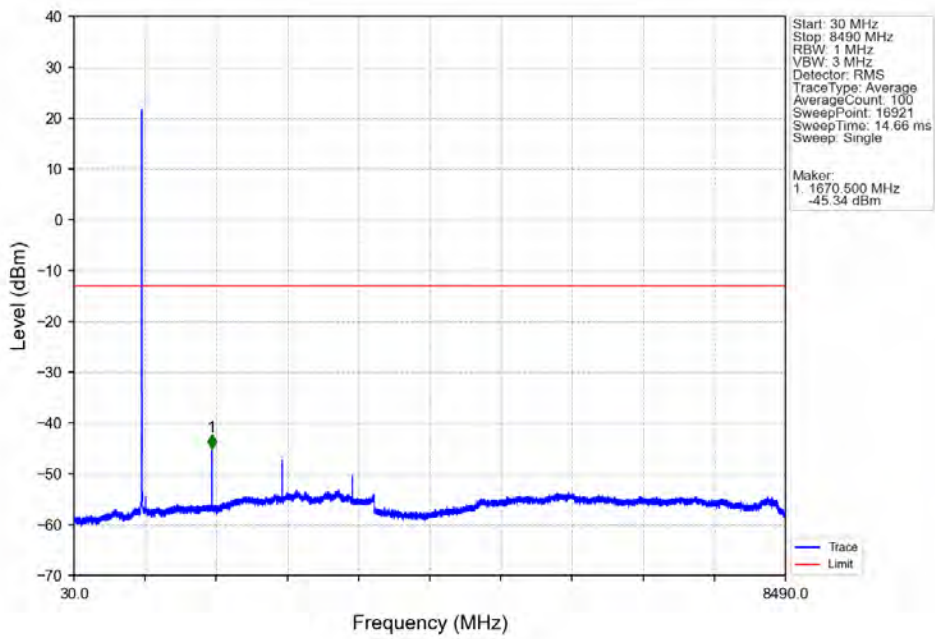


Band5 3MHz QPSK LCH 825.5MHz RB 15 0 NTNV

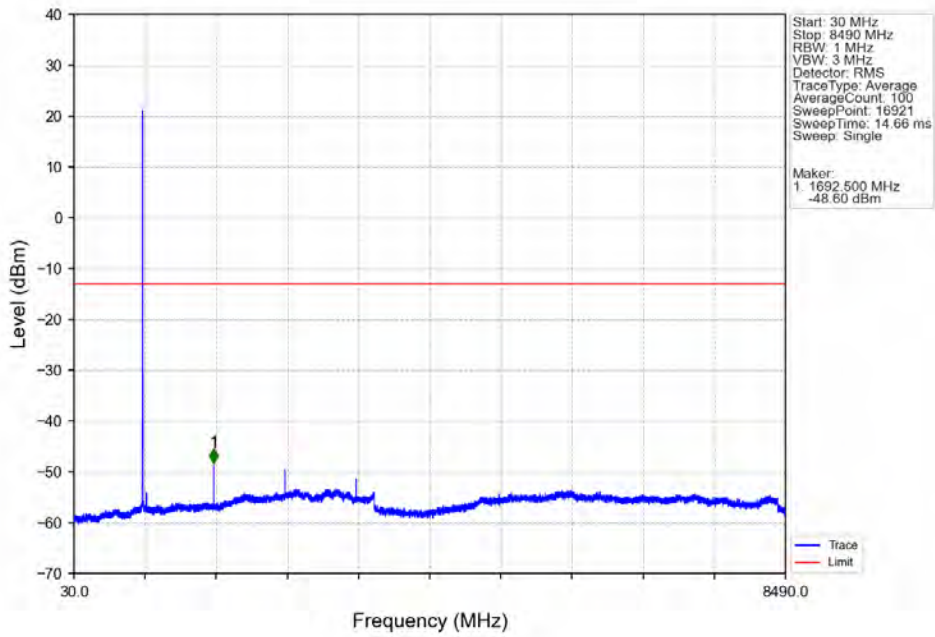


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.944	-37.26	-13	Pass
823	824	0.03	/	2	823.994	-30.81	-13	Pass
824	827	0.03	/	/	/	/	/	/

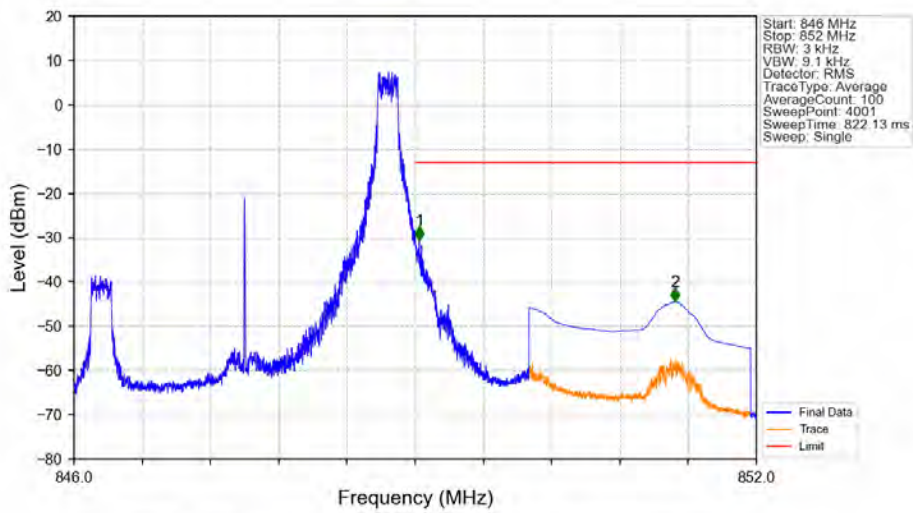
Band5 3MHz QPSK MCH 836.5MHz RB 1 0 NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV

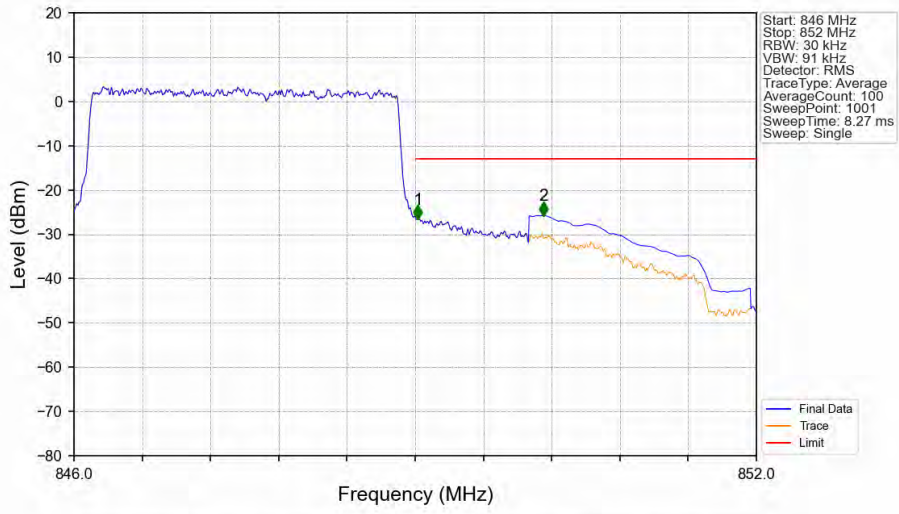


Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.038	-30.62	-13	Pass
850	852	0.1	CHP	2	851.286	-44.49	-13	Pass

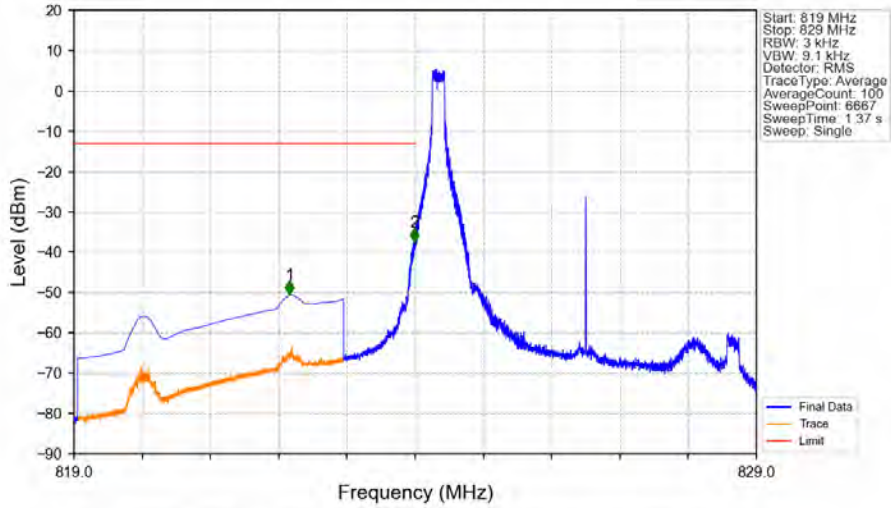
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.024	-26.50	-13	Pass
850	852	0.1	CHP	2	850.128	-25.76	-13	Pass

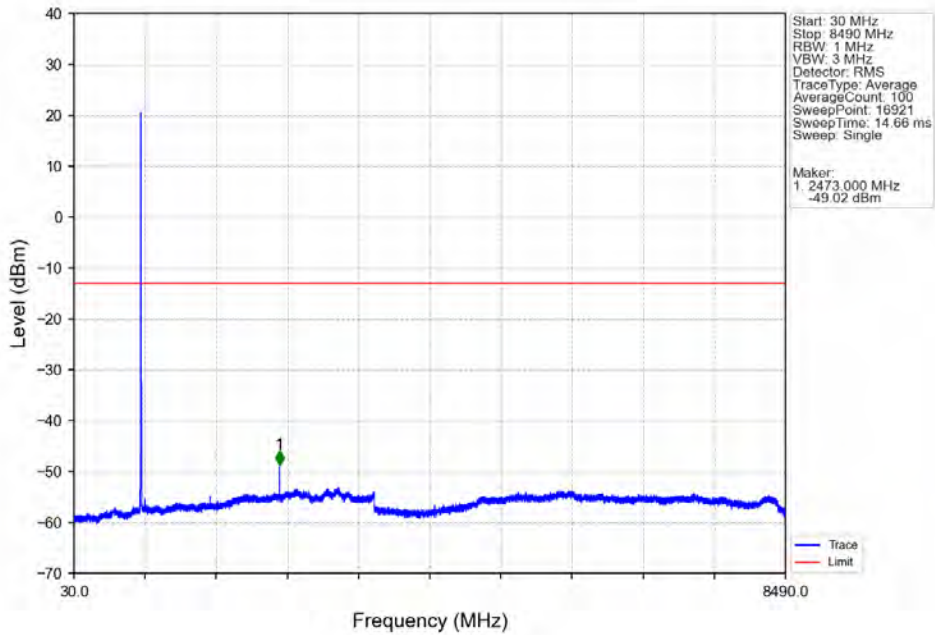
5.2.3 B5_5MHz

Band5 5MHz QPSK LCH 826.5MHz RB 1 0 NTV

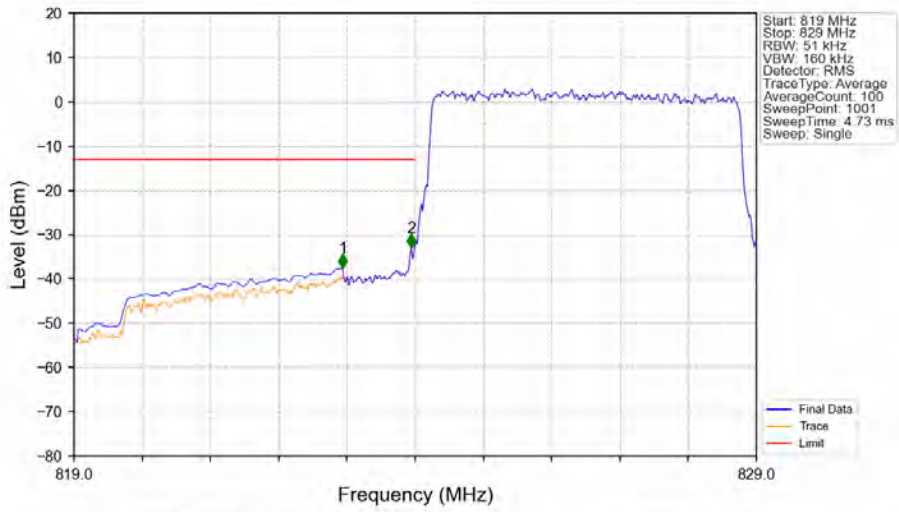


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.161	-50.54	-13	Pass
823	824	0.003	/	2	823.985	-37.38	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5 5MHz QPSK LCH 826.5MHz RB 1 0 NTV

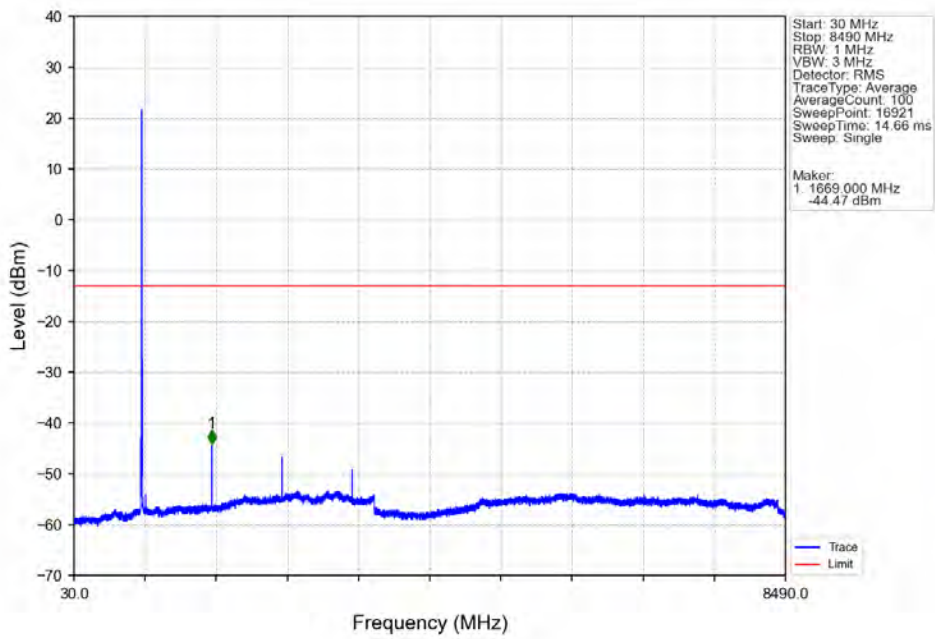


Band5 5MHz QPSK LCH 826.5MHz RB 25 0 NTNV

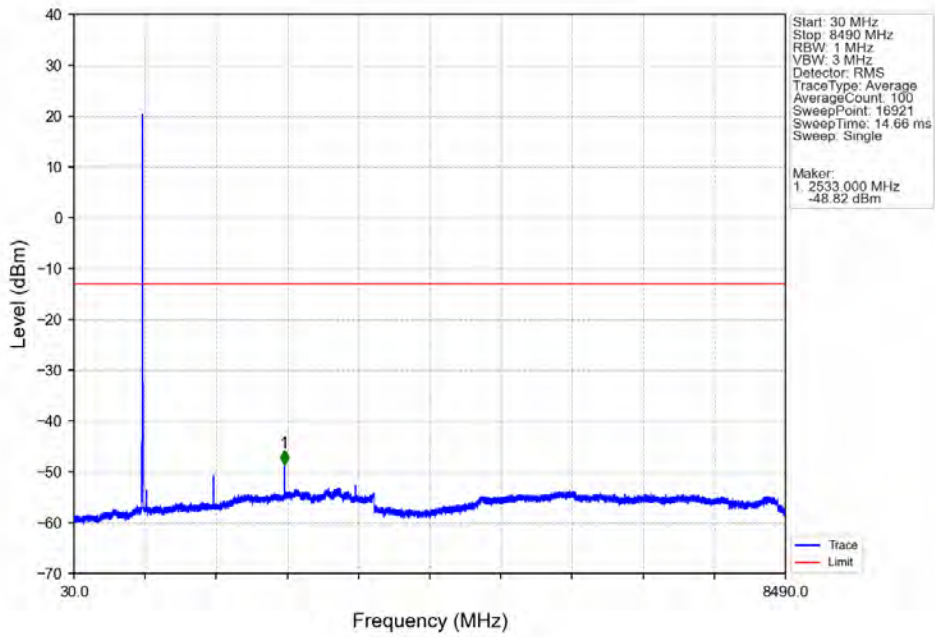


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-37.55	-13	Pass
823	824	0.051	/	2	823.940	-32.88	-13	Pass
824	829	0.051	/	/	/	/	/	/

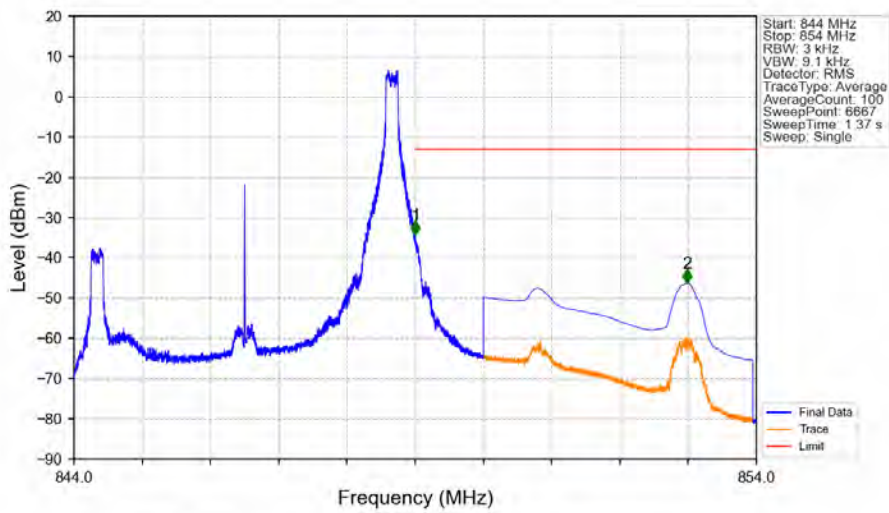
Band5 5MHz QPSK MCH 836.5MHz RB 1 0 NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV

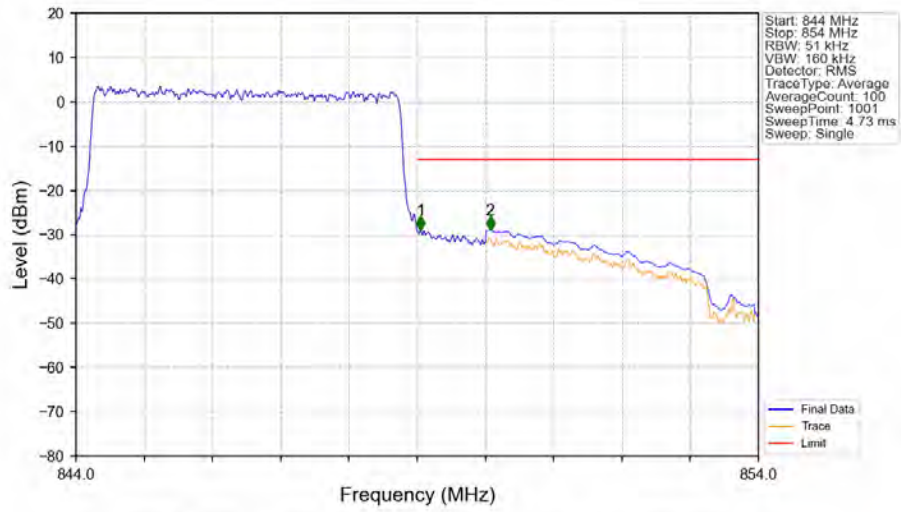


Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-34.27	-13	Pass
850	854	0.1	CHP	2	852.984	-46.29	-13	Pass

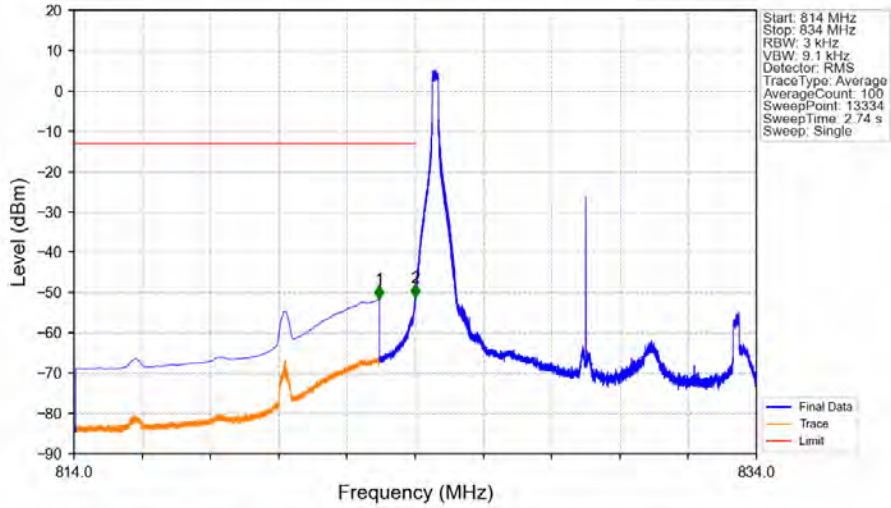
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.050	-28.93	-13	Pass
850	854	0.1	CHP	2	850.070	-28.92	-13	Pass

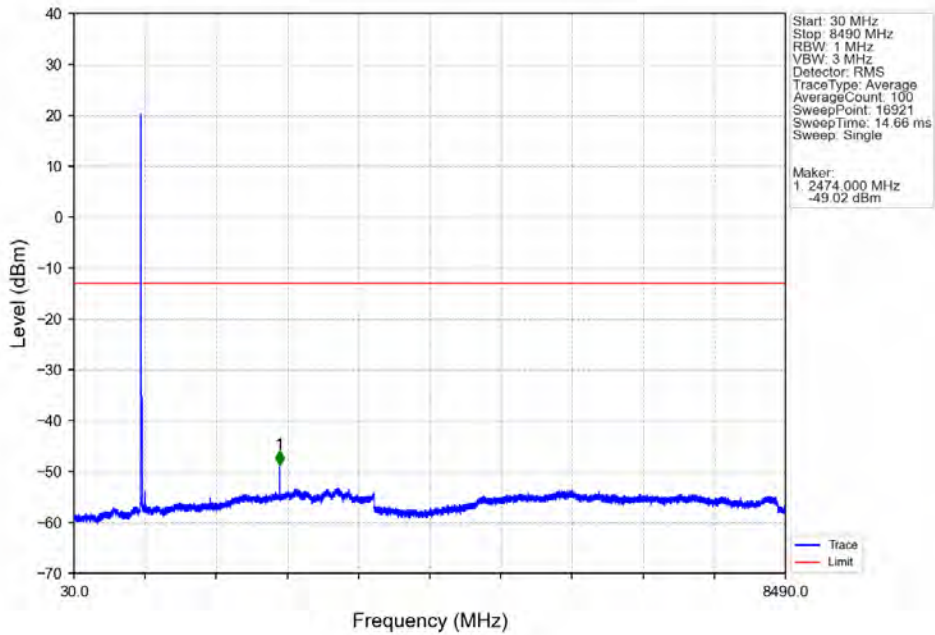
5.2.4 B5_10MHz

Band5 10MHz QPSK LCH 829MHz RB 1 0 NTNV

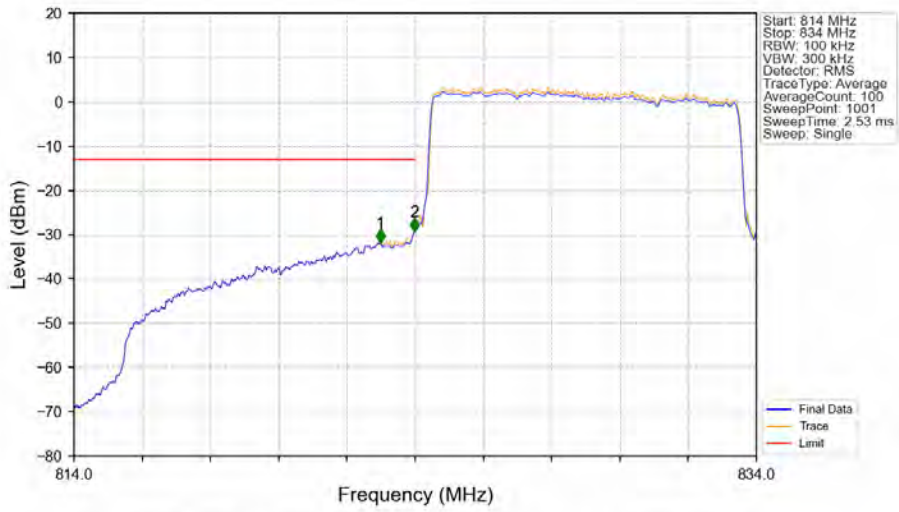


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	822.945	-51.64	-13	Pass
823	824	0.003	/	2	823.996	-51.23	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5 10MHz QPSK LCH 829MHz RB 1 0 NTNV

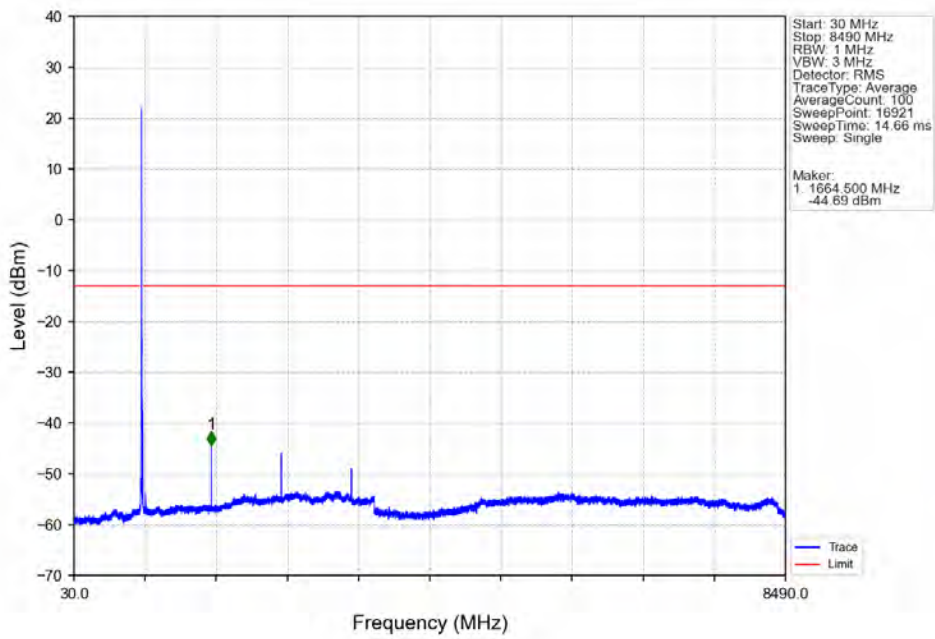


Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.980	-31.82	-13	Pass
823	824	0.101	CHP	2	823.980	-29.36	-13	Pass
824	834	0.101	CHP	/	/	/	/	/

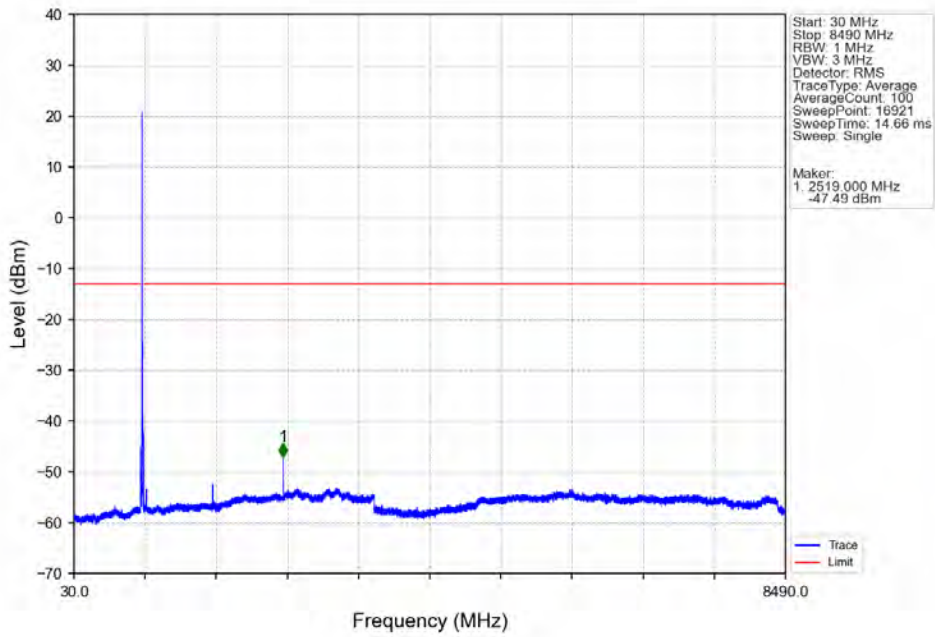
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



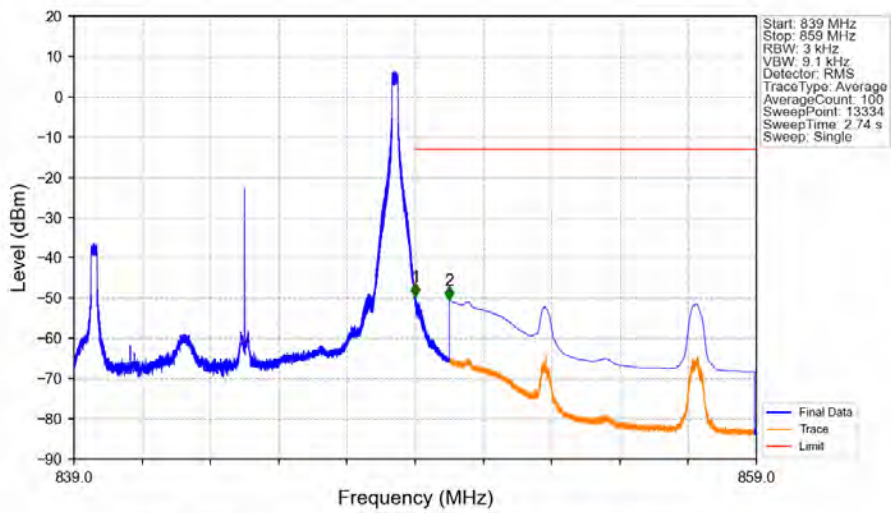
Start: 30 MHz
 Stop: 8490 MHz
 RBW: 1 MHz
 VBW: 3 MHz
 Detector: RMS
 TraceType: Average
 AverageCount: 100
 SweepPoint: 16921
 SweepTime: 14.66 ms
 Sweep: Single

Marker:
 1 1664.500 MHz
 -44.69 dBm

Band5 10MHz QPSK HCH 844MHz RB 1 0 NTV

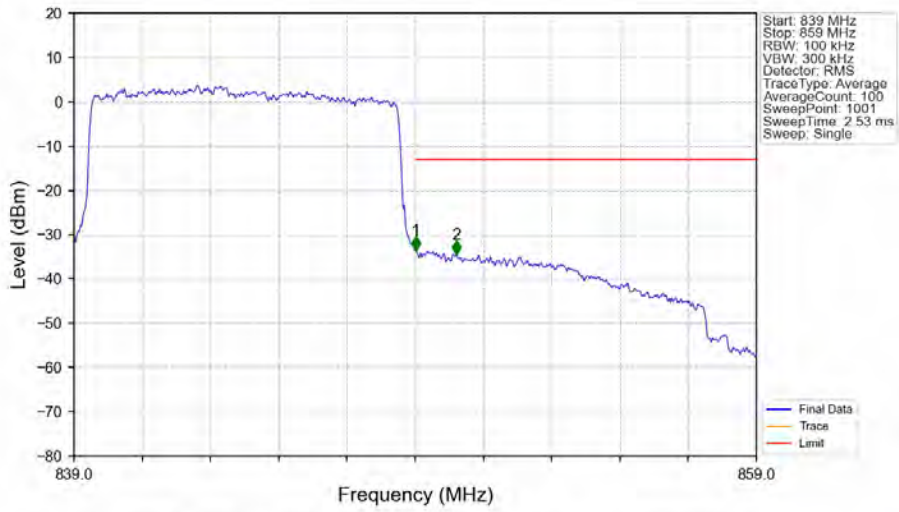


Band5 10MHz QPSK HCH 844MHz RB 1 49 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.008	-49.60	-13	Pass
850	859	0.1	CHP	2	850.001	-50.56	-13	Pass

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	850	0.1	/	1	849.020	-33.41	-13	Pass
850	859	0.1	/	2	850.200	-34.33	-13	Pass

6. Field Strength of Spurious Radiation

Test Band = LTE Band5_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1432	51.60	-48.10	25.23	-66.53	-13.00	53.53	Horizontal
2	1649.1429	77.77	-48.22	25.45	-40.26	-13.00	27.26	Horizontal
3	2473.7143	61.86	-47.32	27.15	-53.57	-13.00	40.57	Horizontal
4	3298.2857	64.28	-46.67	28.40	-49.26	-13.00	36.26	Horizontal
5	4258.2857	42.97	-45.86	30.02	-68.13	-13.00	55.13	Horizontal
6	6336.5714	42.79	-44.66	33.54	-63.58	-13.00	50.58	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB μ V]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.1429	69.10	-48.22	25.45	-48.93	-13.00	35.93	Vertical
2	2473.7143	52.69	-47.32	27.15	-62.74	-13.00	49.74	Vertical
3	3298.8571	58.68	-46.68	28.40	-54.86	-13.00	41.86	Vertical
4	4585.7143	43.97	-45.76	30.74	-66.32	-13.00	53.32	Vertical
5	5985.7143	43.15	-44.51	32.40	-64.22	-13.00	51.22	Vertical
6	7786.8571	41.72	-42.69	36.80	-59.43	-13.00	46.43	Vertical

Test Band = LTE Band5_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664	73.23	-48.20	25.46	-44.77	-13.00	31.77	Horizontal
2	2496.5714	69.45	-47.28	27.19	-45.89	-13.00	32.89	Horizontal
3	3328	66.65	-46.64	28.43	-46.82	-13.00	33.82	Horizontal
4	4160.5714	50.22	-45.94	29.79	-61.19	-13.00	48.19	Horizontal
5	5776.5714	43.01	-44.64	32.36	-64.53	-13.00	51.53	Horizontal
6	7396	41.81	-43.27	36.11	-60.61	-13.00	47.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664	67.87	-48.20	25.46	-50.13	-13.00	37.13	Vertical
2	2496	61.22	-47.28	27.19	-54.13	-13.00	41.13	Vertical
3	3328.5714	62.77	-46.64	28.43	-50.70	-13.00	37.70	Vertical
4	4415.4286	43.96	-45.85	30.40	-66.75	-13.00	53.75	Vertical
5	5398.8571	43.81	-44.97	32.12	-64.31	-13.00	51.31	Vertical
6	7300	41.84	-43.47	35.84	-61.05	-13.00	48.05	Vertical

Test Band = LTE Band5_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1401.1429	46.30	-48.00	25.20	-71.76	-13.00	58.76	Horizontal
2	1679.4286	76.82	-48.18	25.48	-41.15	-13.00	28.15	Horizontal
3	2518.8571	60.77	-47.21	27.23	-54.46	-13.00	41.46	Horizontal
4	3358.2857	69.50	-46.60	28.46	-43.90	-13.00	30.90	Horizontal
5	4197.7143	44.98	-45.96	29.87	-66.36	-13.00	53.36	Horizontal
6	6169.1429	43.20	-44.83	32.98	-63.91	-13.00	50.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1678.8571	68.55	-48.19	25.48	-49.42	-13.00	36.42	Vertical
2	2518.8571	57.58	-47.21	27.23	-57.65	-13.00	44.65	Vertical
3	3358.2857	67.58	-46.60	28.46	-45.82	-13.00	32.82	Vertical
4	4440	43.75	-45.77	30.46	-66.83	-13.00	53.83	Vertical
5	5424	43.69	-45.01	32.16	-64.42	-13.00	51.42	Vertical
6	6798.8571	42.65	-44.12	34.64	-62.09	-13.00	49.09	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---