

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B8_1.4MHz_ERP

Band: 8 / Bandwidth: 1.4MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	898.2	1	0	23.71	5.17	26.73	34.77	Pass
			2	23.73	5.17	26.75	34.77	Pass
			5	23.74	5.17	26.76	34.77	Pass
		3	0	23.71	5.17	26.73	34.77	Pass
			2	23.72	5.17	26.74	34.77	Pass
			3	23.67	5.17	26.69	34.77	Pass
		6	0	22.70	5.17	25.72	34.77	Pass
	899	1	0	23.61	5.17	26.63	34.77	Pass
			2	23.74	5.17	26.76	34.77	Pass
			5	23.67	5.17	26.69	34.77	Pass
		3	0	23.64	5.17	26.66	34.77	Pass
			2	23.65	5.17	26.67	34.77	Pass
			3	23.61	5.17	26.63	34.77	Pass
		6	0	22.65	5.17	25.67	34.77	Pass
	899.8	1	0	23.63	5.17	26.65	34.77	Pass
			2	23.47	5.17	26.49	34.77	Pass
			5	23.50	5.17	26.52	34.77	Pass
		3	0	23.50	5.17	26.52	34.77	Pass
			2	23.37	5.17	26.39	34.77	Pass
			3	23.32	5.17	26.34	34.77	Pass
		6	0	22.44	5.17	25.46	34.77	Pass
16QAM	898.2	1	0	22.78	5.17	25.80	34.77	Pass
			2	22.88	5.17	25.90	34.77	Pass
			5	22.82	5.17	25.84	34.77	Pass
		3	0	22.68	5.17	25.70	34.77	Pass
			2	22.67	5.17	25.69	34.77	Pass
			3	22.66	5.17	25.68	34.77	Pass
		6	0	21.78	5.17	24.80	34.77	Pass
	899	1	0	22.63	5.17	25.65	34.77	Pass
			2	22.80	5.17	25.82	34.77	Pass
			5	22.73	5.17	25.75	34.77	Pass
		3	0	22.58	5.17	25.60	34.77	Pass
			2	22.60	5.17	25.62	34.77	Pass
			3	22.57	5.17	25.59	34.77	Pass
		6	0	21.77	5.17	24.79	34.77	Pass
	899.8	1	0	22.54	5.17	25.56	34.77	Pass
			2	22.44	5.17	25.46	34.77	Pass
			5	22.55	5.17	25.57	34.77	Pass
		3	0	22.57	5.17	25.59	34.77	Pass
			2	22.44	5.17	25.46	34.77	Pass
			3	22.40	5.17	25.42	34.77	Pass
		6	0	21.66	5.17	24.68	34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B8_3MHz_ERP

Band: 8 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	899	1	0	23.73	5.17	26.75	34.77	Pass
			7	23.73	5.17	26.75	34.77	Pass
			14	23.37	5.17	26.39	34.77	Pass
		8	0	22.69	5.17	25.71	34.77	Pass
			4	22.67	5.17	25.69	34.77	Pass
			7	22.51	5.17	25.53	34.77	Pass
		15	0	22.67	5.17	25.69	34.77	Pass
16QAM	899	1	0	22.49	5.17	25.51	34.77	Pass
			7	22.62	5.17	25.64	34.77	Pass
			14	22.19	5.17	25.21	34.77	Pass
		8	0	21.81	5.17	24.83	34.77	Pass
			4	21.84	5.17	24.86	34.77	Pass
			7	21.68	5.17	24.70	34.77	Pass
		15	0	21.75	5.17	24.77	34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B8_1.4MHz

Band: 8 / 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	898.2	6	0	20	3.40	-0.930	-0.0010	-2.5 to 2.5	Pass
					3.80	-0.300	-0.0003	-2.5 to 2.5	Pass
					4.20	0.100	0.0001	-2.5 to 2.5	Pass
				-30	3.80	-0.744	-0.0008	-2.5 to 2.5	Pass
				-20	3.80	-0.358	-0.0004	-2.5 to 2.5	Pass
				-10	3.80	0.272	0.0003	-2.5 to 2.5	Pass
				0	3.80	-0.229	-0.0003	-2.5 to 2.5	Pass
				10	3.80	-1.059	-0.0012	-2.5 to 2.5	Pass
				30	3.80	-0.315	-0.0004	-2.5 to 2.5	Pass
				40	3.80	-0.086	-0.0001	-2.5 to 2.5	Pass
				50	3.80	-0.572	-0.0006	-2.5 to 2.5	Pass
	899	6	0	20	3.40	-3.347	-0.0037	-2.5 to 2.5	Pass
					3.80	-2.418	-0.0027	-2.5 to 2.5	Pass
					4.20	-1.116	-0.0012	-2.5 to 2.5	Pass
				-30	3.80	-1.130	-0.0013	-2.5 to 2.5	Pass
				-20	3.80	-1.245	-0.0014	-2.5 to 2.5	Pass
				-10	3.80	-1.059	-0.0012	-2.5 to 2.5	Pass
				0	3.80	-1.431	-0.0016	-2.5 to 2.5	Pass
				10	3.80	-1.073	-0.0012	-2.5 to 2.5	Pass
				30	3.80	-0.973	-0.0011	-2.5 to 2.5	Pass
				40	3.80	-0.529	-0.0006	-2.5 to 2.5	Pass
				50	3.80	-1.187	-0.0013	-2.5 to 2.5	Pass
	899.8	6	0	20	3.40	-3.362	-0.0037	-2.5 to 2.5	Pass
					3.80	-1.402	-0.0016	-2.5 to 2.5	Pass
					4.20	-1.874	-0.0021	-2.5 to 2.5	Pass
				-30	3.80	-1.645	-0.0018	-2.5 to 2.5	Pass

16QAM	898.2	6	0	-20	3.80	-0.615	-0.0007	-2.5 to 2.5	Pass
				-10	3.80	-0.815	-0.0009	-2.5 to 2.5	Pass
				0	3.80	-1.359	-0.0015	-2.5 to 2.5	Pass
				10	3.80	-0.401	-0.0004	-2.5 to 2.5	Pass
				30	3.80	0.043	0.0000	-2.5 to 2.5	Pass
				40	3.80	-0.873	-0.0010	-2.5 to 2.5	Pass
				50	3.80	-0.844	-0.0009	-2.5 to 2.5	Pass
	899	6	0	20	3.40	-0.544	-0.0006	-2.5 to 2.5	Pass
					3.80	-0.715	-0.0008	-2.5 to 2.5	Pass
					4.20	-0.687	-0.0008	-2.5 to 2.5	Pass
				-30	3.80	-0.472	-0.0005	-2.5 to 2.5	Pass
				-20	3.80	-0.973	-0.0011	-2.5 to 2.5	Pass
				-10	3.80	-0.873	-0.0010	-2.5 to 2.5	Pass
				0	3.80	-0.930	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-0.429	-0.0005	-2.5 to 2.5	Pass
				30	3.80	-0.172	-0.0002	-2.5 to 2.5	Pass
				40	3.80	-0.887	-0.0010	-2.5 to 2.5	Pass
				50	3.80	-0.315	-0.0004	-2.5 to 2.5	Pass
				20	3.40	0.072	0.0001	-2.5 to 2.5	Pass
					3.80	-0.501	-0.0006	-2.5 to 2.5	Pass
					4.20	-0.529	-0.0006	-2.5 to 2.5	Pass
				-30	3.80	-0.300	-0.0003	-2.5 to 2.5	Pass
				-20	3.80	1.001	0.0011	-2.5 to 2.5	Pass
				-10	3.80	0.043	0.0000	-2.5 to 2.5	Pass
				0	3.80	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.80	-0.329	-0.0004	-2.5 to 2.5	Pass
				30	3.80	-0.443	-0.0005	-2.5 to 2.5	Pass
				40	3.80	-0.200	-0.0002	-2.5 to 2.5	Pass
				50	3.80	-0.558	-0.0006	-2.5 to 2.5	Pass
	899.8	6	0	20	3.40	-0.029	0.0000	-2.5 to 2.5	Pass
					3.80	-0.272	-0.0003	-2.5 to 2.5	Pass
					4.20	-0.243	-0.0003	-2.5 to 2.5	Pass
				-30	3.80	-0.715	-0.0008	-2.5 to 2.5	Pass
				-20	3.80	-0.772	-0.0009	-2.5 to 2.5	Pass
				-10	3.80	-0.515	-0.0006	-2.5 to 2.5	Pass
				0	3.80	-0.830	-0.0009	-2.5 to 2.5	Pass
				10	3.80	-0.958	-0.0011	-2.5 to 2.5	Pass
				30	3.80	-0.558	-0.0006	-2.5 to 2.5	Pass
				40	3.80	0.029	0.0000	-2.5 to 2.5	Pass
				50	3.80	-0.014	0.0000	-2.5 to 2.5	Pass

2.1.2 B8_3MHz

Band: 8 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	899	15	0	20	3.40	-2.017	-0.0022	-2.5 to 2.5	Pass
					3.80	-1.588	-0.0018	-2.5 to 2.5	Pass
					4.20	0.157	0.0002	-2.5 to 2.5	Pass
				-30	3.80	-0.887	-0.0010	-2.5 to 2.5	Pass
				-20	3.80	-0.887	-0.0010	-2.5 to 2.5	Pass
				-10	3.80	-0.343	-0.0004	-2.5 to 2.5	Pass
				0	3.80	-0.901	-0.0010	-2.5 to 2.5	Pass
				10	3.80	-0.572	-0.0006	-2.5 to 2.5	Pass
				30	3.80	-0.916	-0.0010	-2.5 to 2.5	Pass

				40	3.80	-0.858	-0.0010	-2.5 to 2.5	Pass
				50	3.80	-0.286	-0.0003	-2.5 to 2.5	Pass
16QAM	899	15	0	20	3.40	0.629	0.0007	-2.5 to 2.5	Pass
					3.80	-0.086	-0.0001	-2.5 to 2.5	Pass
					4.20	-0.129	-0.0001	-2.5 to 2.5	Pass
				-30	3.80	-0.386	-0.0004	-2.5 to 2.5	Pass
				-20	3.80	-1.059	-0.0012	-2.5 to 2.5	Pass
				-10	3.80	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.80	-0.072	-0.0001	-2.5 to 2.5	Pass
				10	3.80	0.100	0.0001	-2.5 to 2.5	Pass
				30	3.80	-0.730	-0.0008	-2.5 to 2.5	Pass
				40	3.80	-0.315	-0.0004	-2.5 to 2.5	Pass
				50	3.80	0.758	0.0008	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band8_OBW

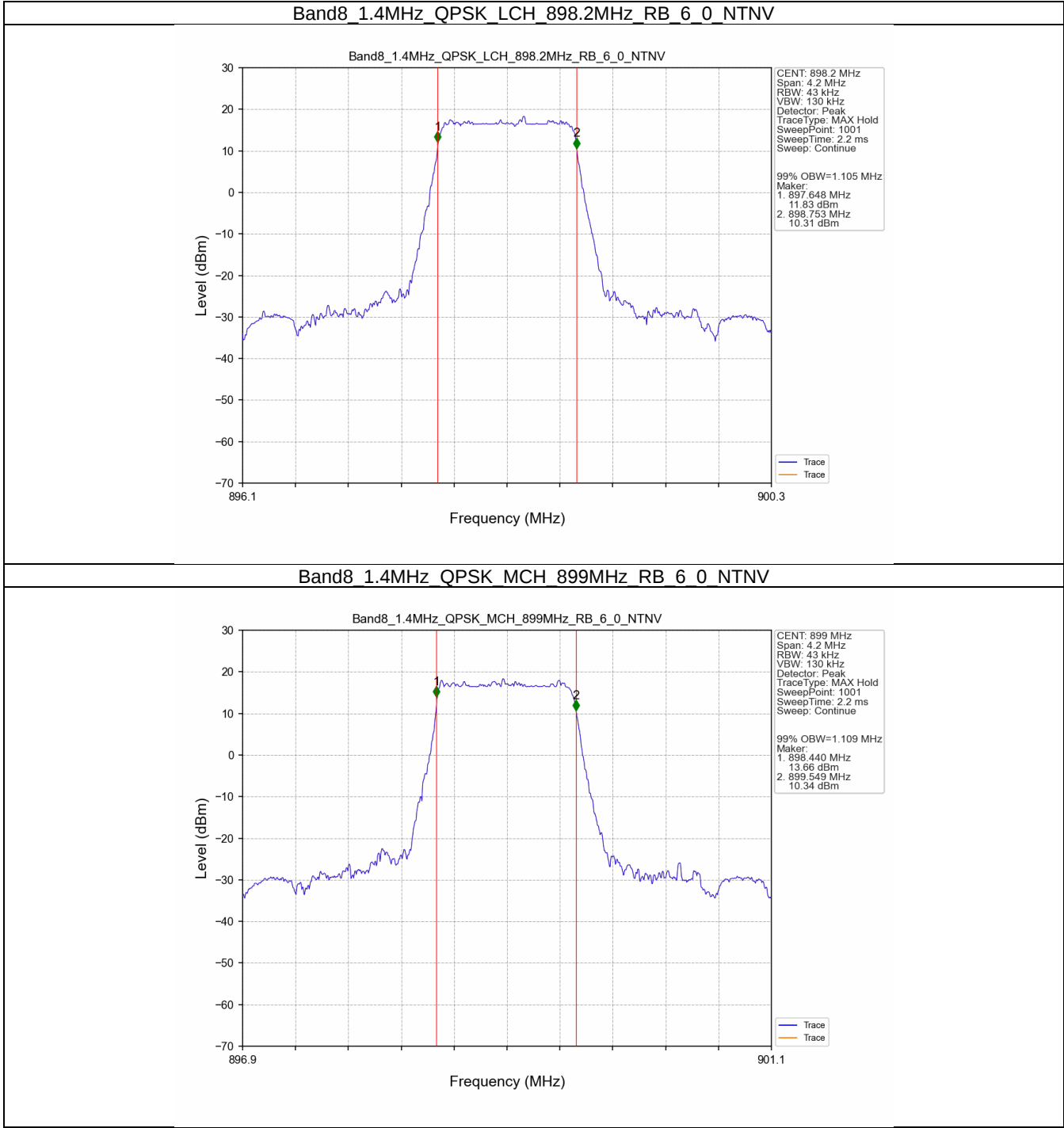
Band: 8 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	898.2	6	0	1.105	/	Pass
		899	6	0	1.109	/	Pass
		899.8	6	0	1.107	/	Pass
	16QAM	898.2	6	0	1.111	/	Pass
		899	6	0	1.109	/	Pass
		899.8	6	0	1.115	/	Pass
3	QPSK	899	15	0	2.741	/	Pass
	16QAM	899	15	0	2.748	/	Pass

3.1.2 Band8_XDB

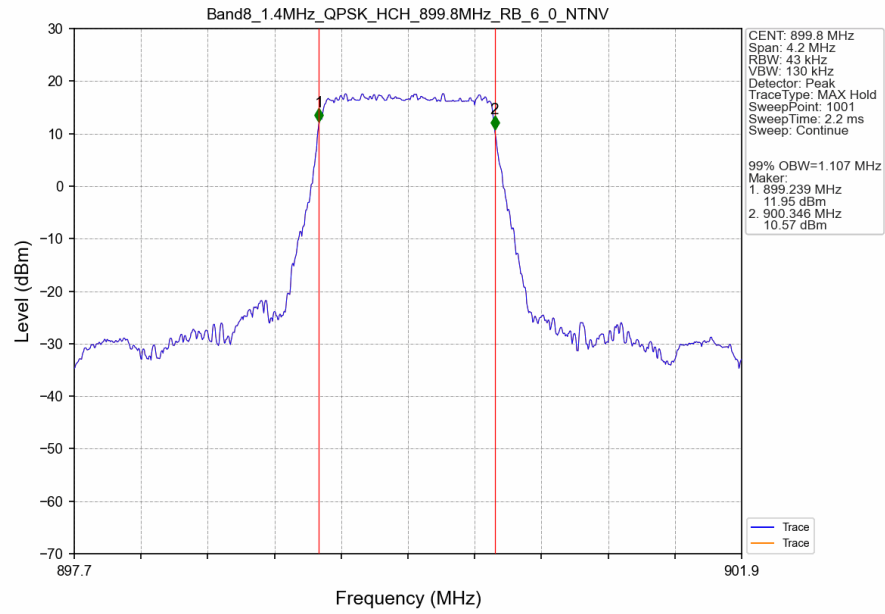
Band: 8 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	898.2	6	0	1.322	/	Pass
		899	6	0	1.321	/	Pass
		899.8	6	0	1.331	/	Pass
	16QAM	898.2	6	0	1.338	/	Pass
		899	6	0	1.325	/	Pass
		899.8	6	0	1.310	/	Pass
3	QPSK	899	15	0	3.064	/	Pass
	16QAM	899	15	0	3.056	/	Pass

3.2 Test Graph

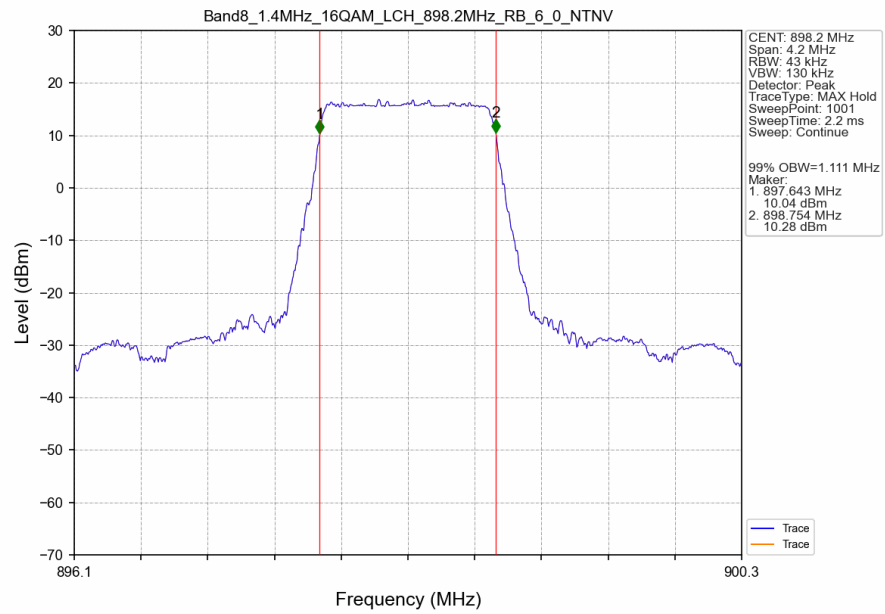
3.2.1 Band8_OBW



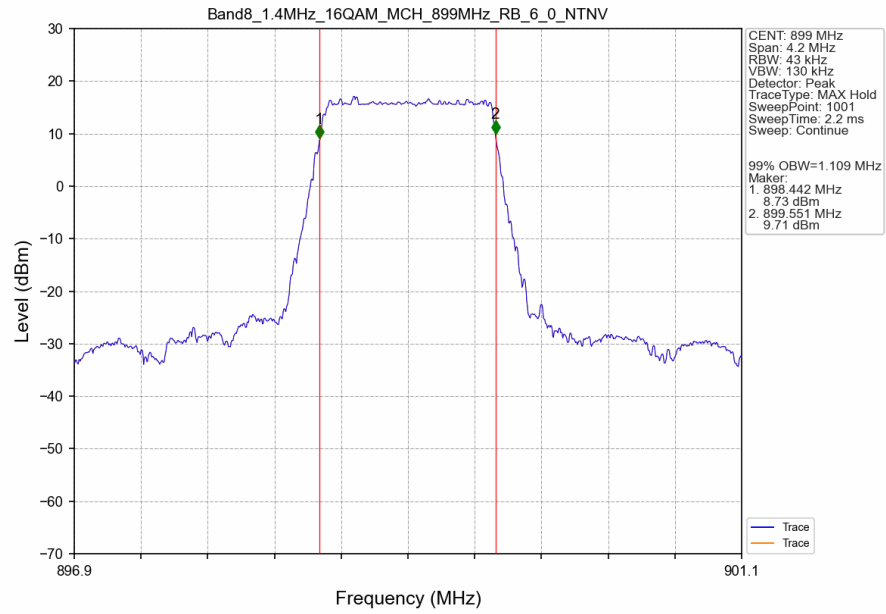
Band8 1.4MHz QPSK HCH 899.8MHz RB 6 0 NTNV



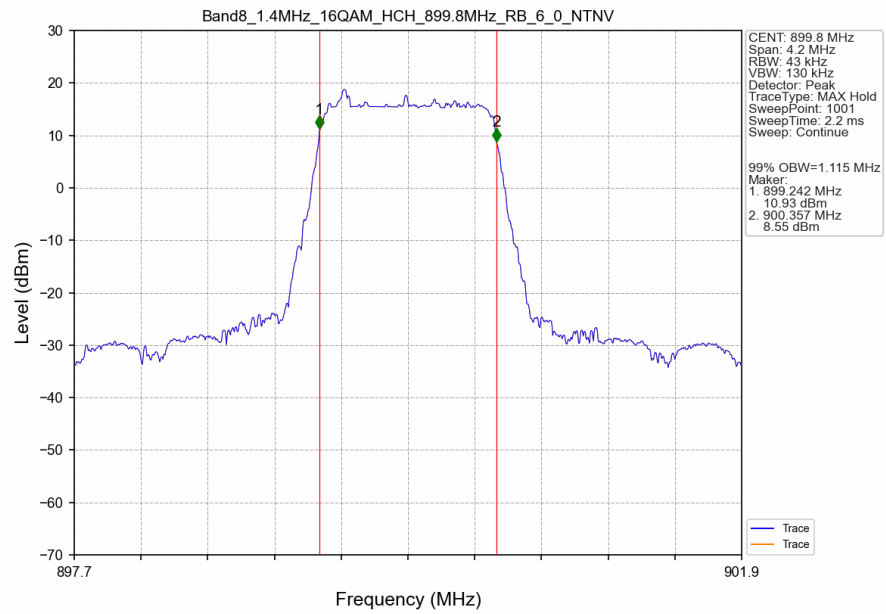
Band8 1.4MHz 16QAM LCH 898.2MHz RB 6 0 NTNV



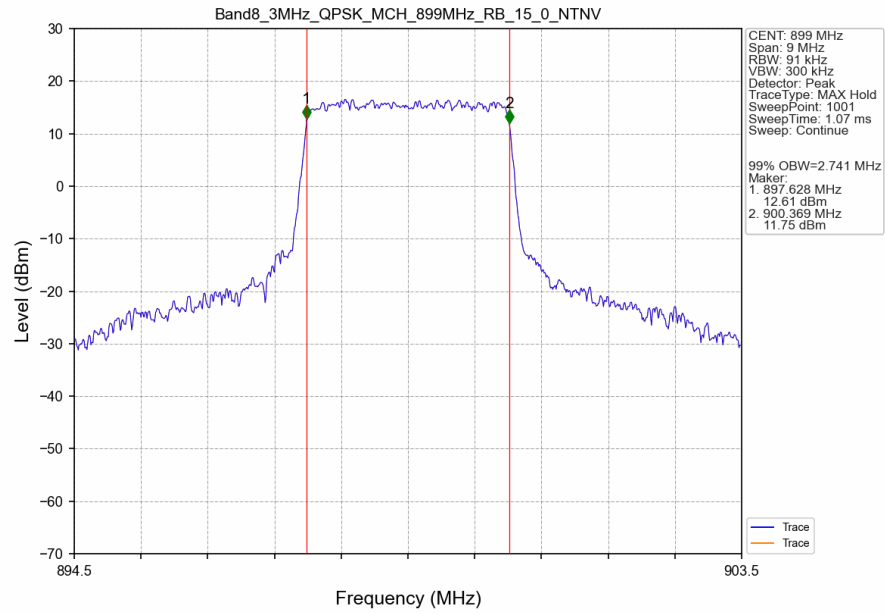
Band8 1.4MHz 16QAM MCH 899MHz RB 6 0 NTNV



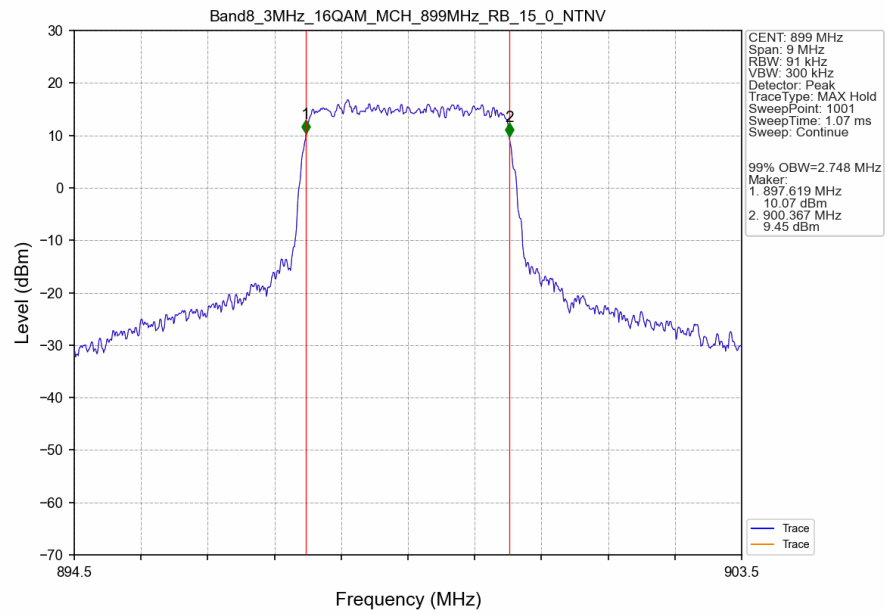
Band8 1.4MHz 16QAM HCH 899.8MHz RB 6 0 NTNV



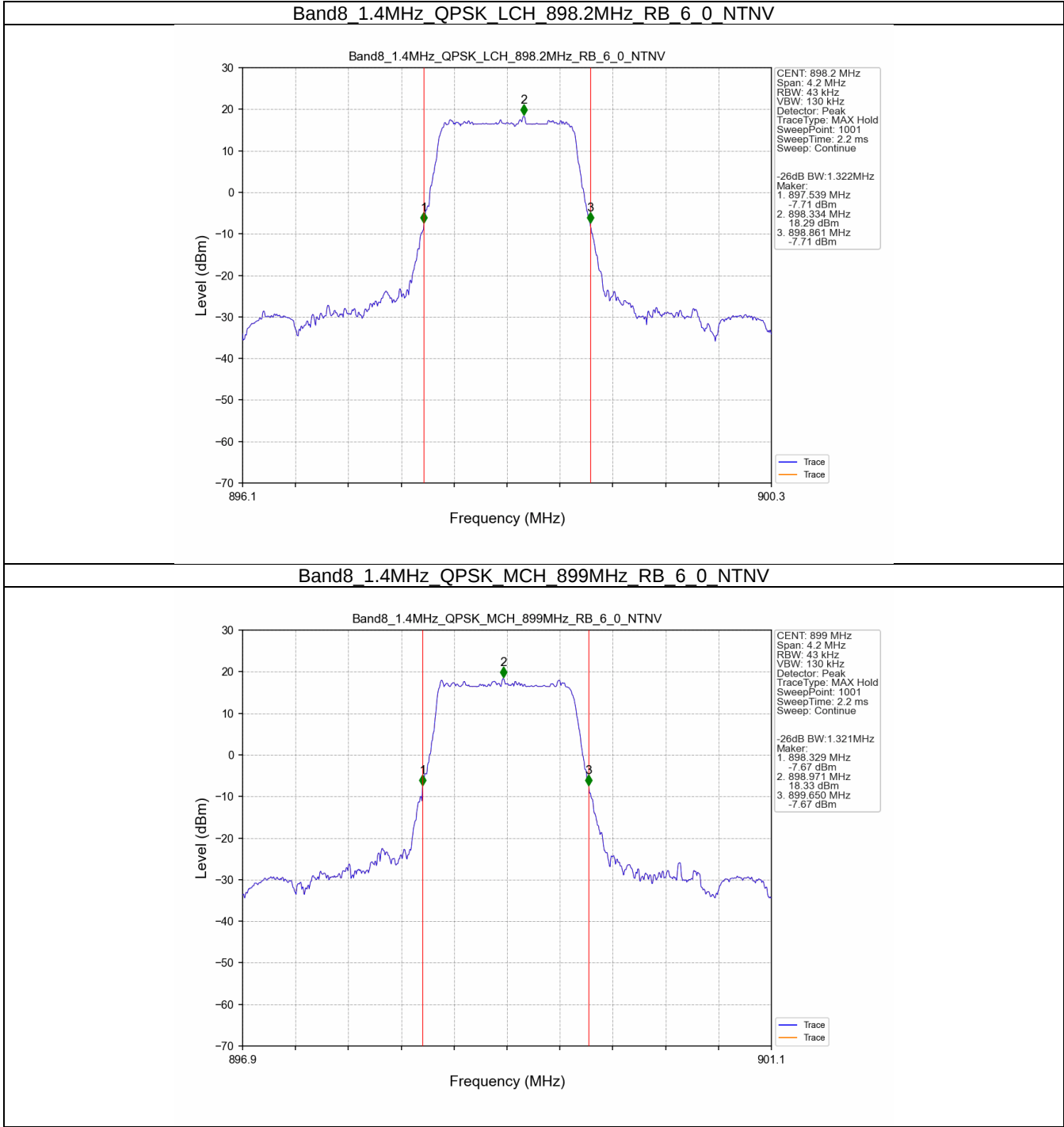
Band8 3MHz QPSK MCH 899MHz RB 15 0 NTN



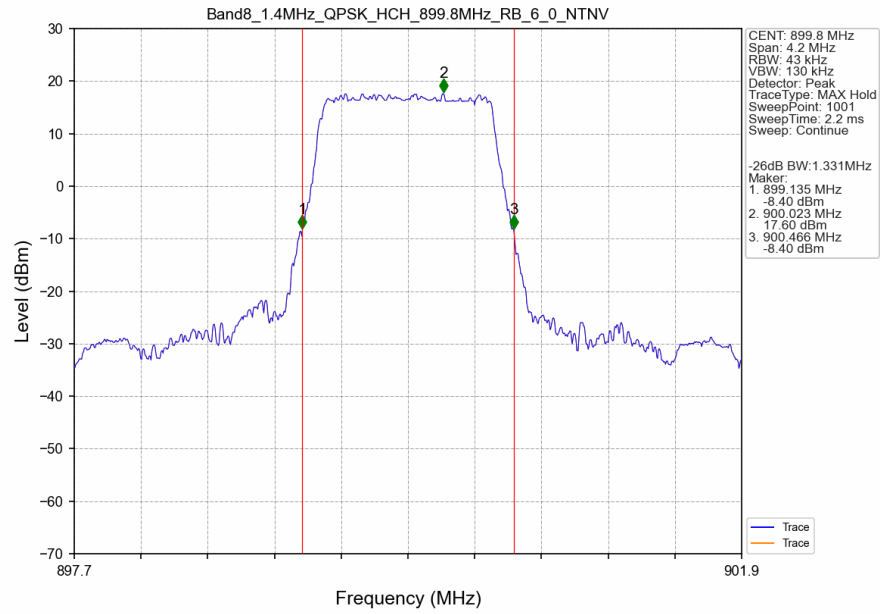
Band8 3MHz 16QAM MCH 899MHz RB 15 0 NTN



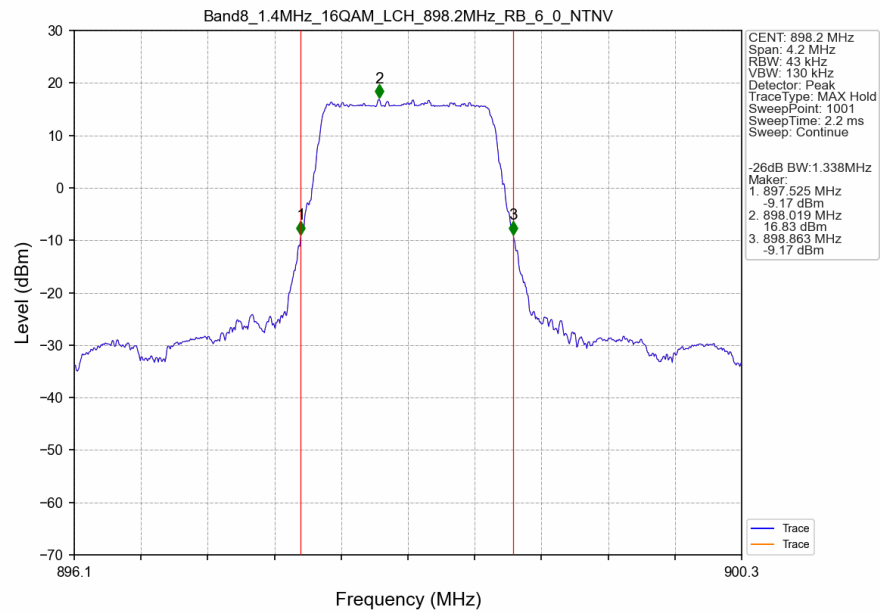
3.2.2 Band8_XDB



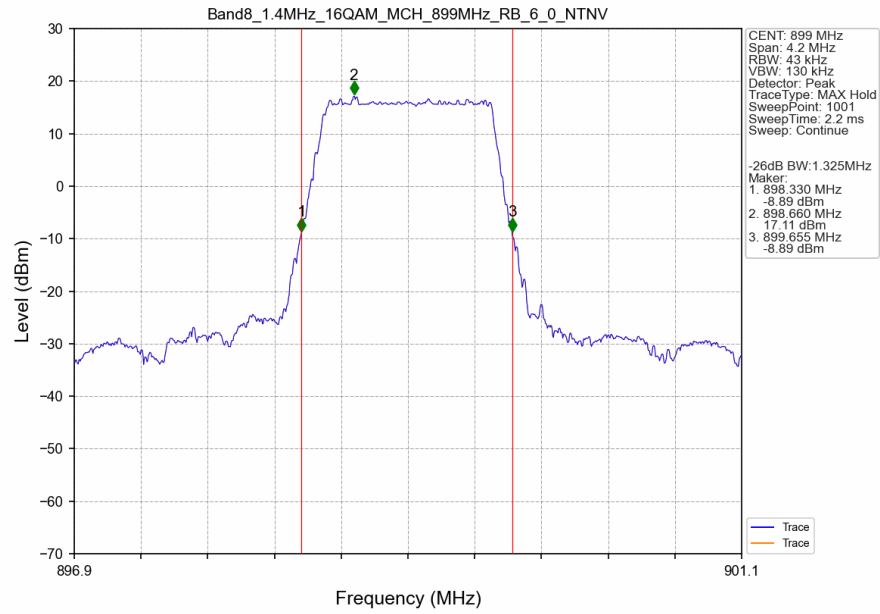
Band8 1.4MHz QPSK HCH 899.8MHz RB 6 0 NTNV



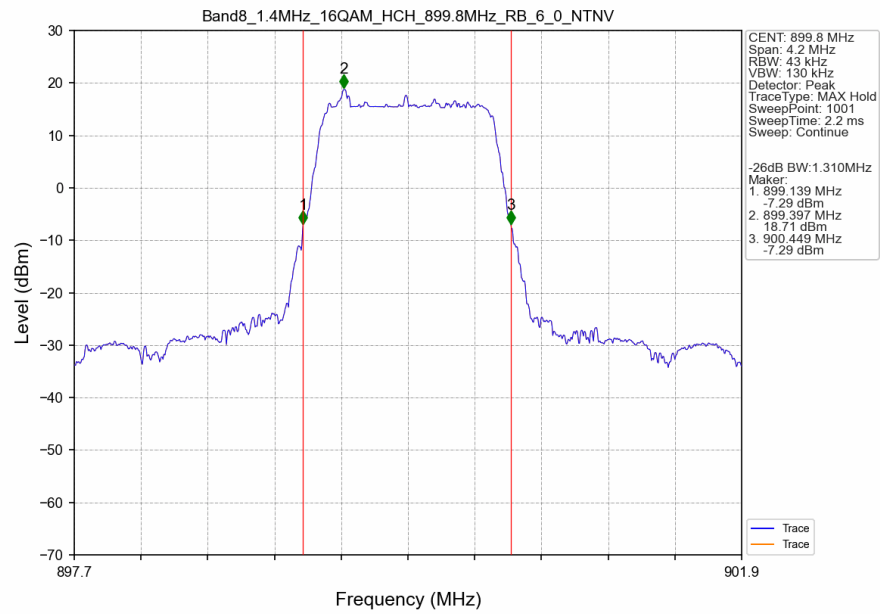
Band8 1.4MHz 16QAM LCH 898.2MHz RB 6 0 NTNV



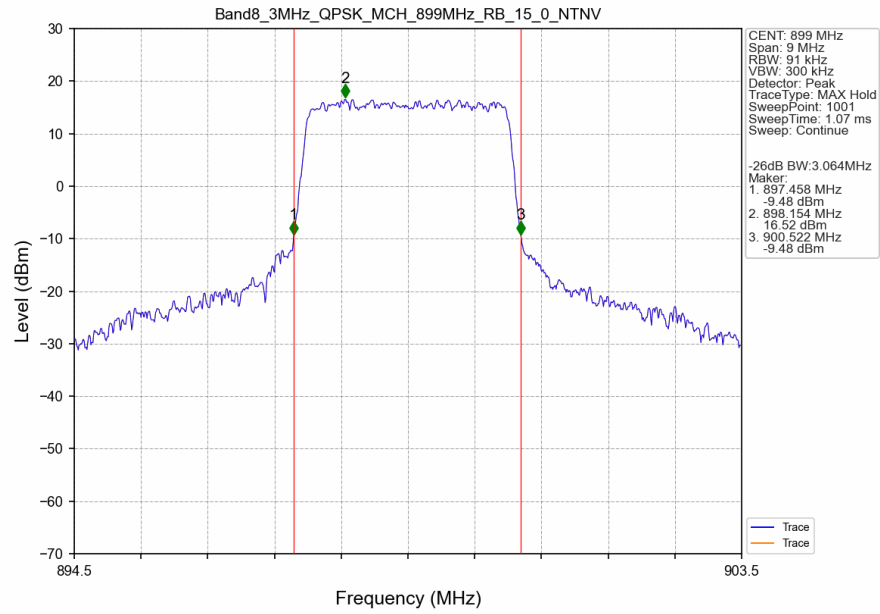
Band8 1.4MHz 16QAM MCH 899MHz RB 6 0 NTNV



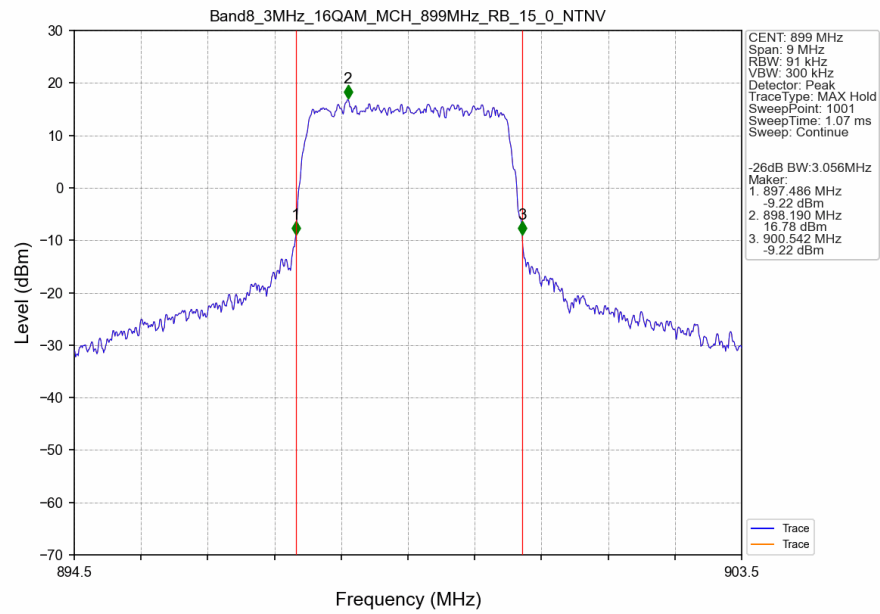
Band8 1.4MHz 16QAM HCH 899.8MHz RB 6 0 NTNV



Band8 3MHz QPSK MCH 899MHz RB 15 0 NTN



Band8 3MHz 16QAM MCH 899MHz RB 15 0 NTN



4. Peak-Average Ratio

4.1 Test Result

4.1.1 B8_1.4MHz

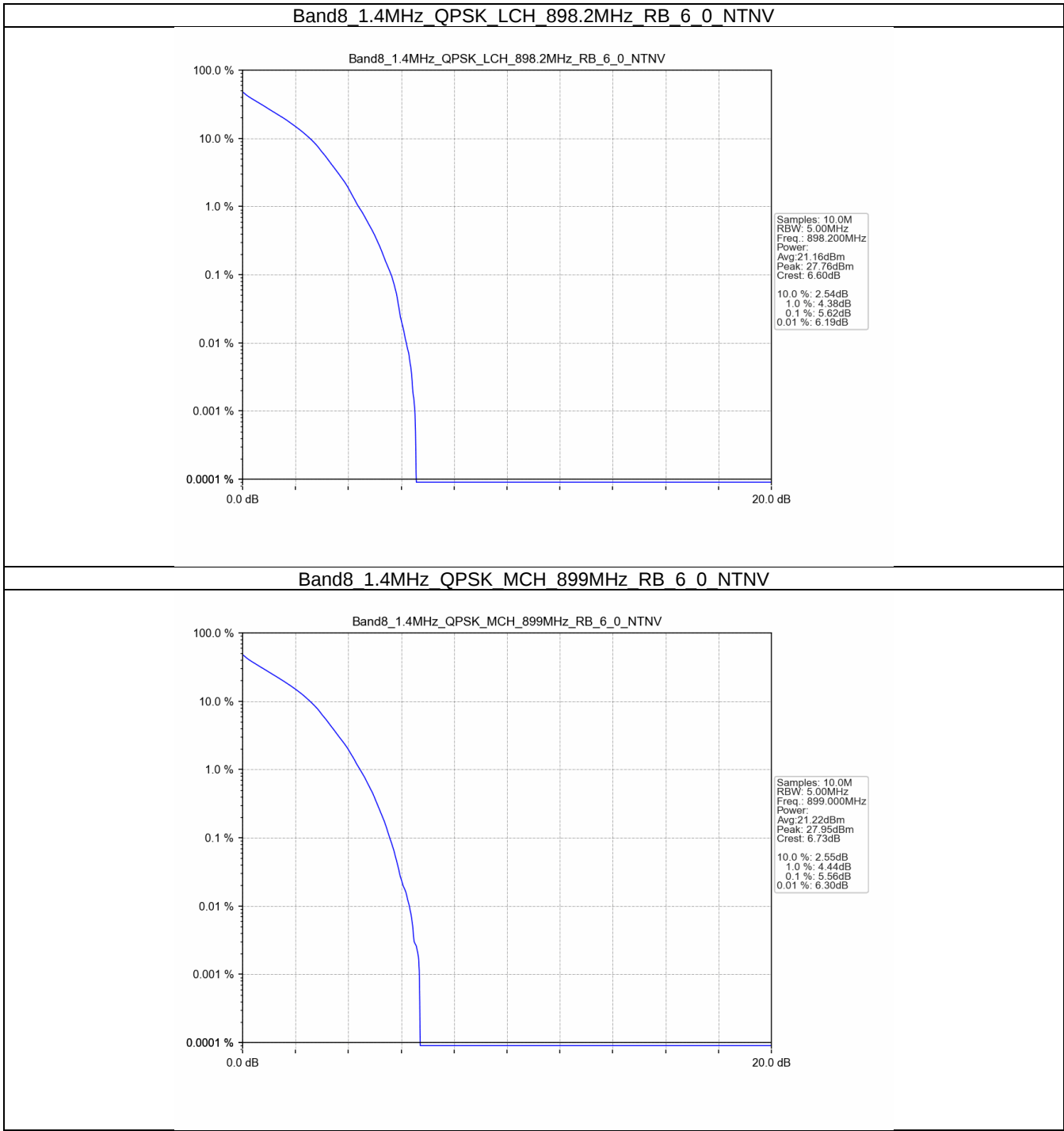
Band: 8 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	898.2	6	0	5.62	<=13	Pass
	899	6	0	5.56	<=13	Pass
	899.8	6	0	5.67	<=13	Pass
16QAM	898.2	6	0	6.40	<=13	Pass
	899	6	0	6.42	<=13	Pass
	899.8	6	0	6.28	<=13	Pass

4.1.2 B8_3MHz

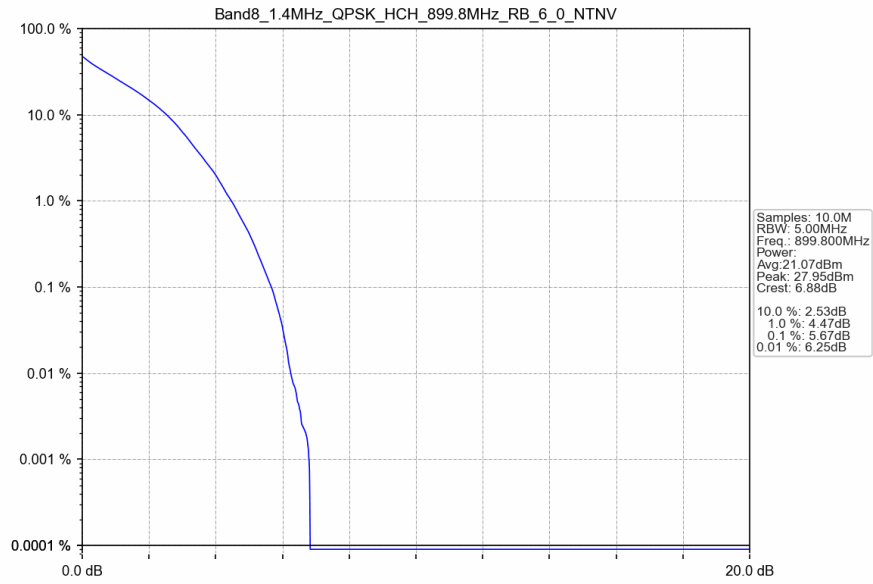
Band: 8 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	899	15	0	5.66	<=13	Pass
16QAM	899	15	0	6.47	<=13	Pass

4.2 Test Graph

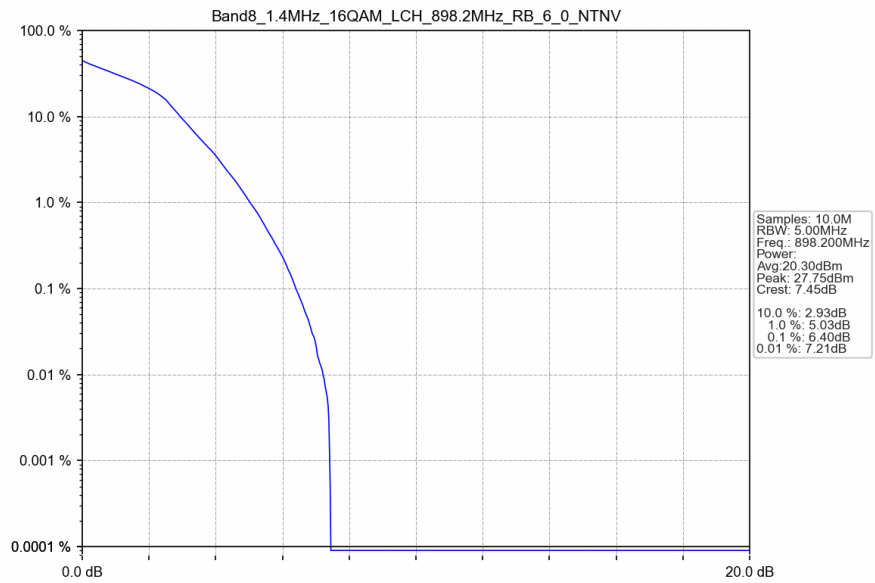
4.2.1 B8_1.4MHz



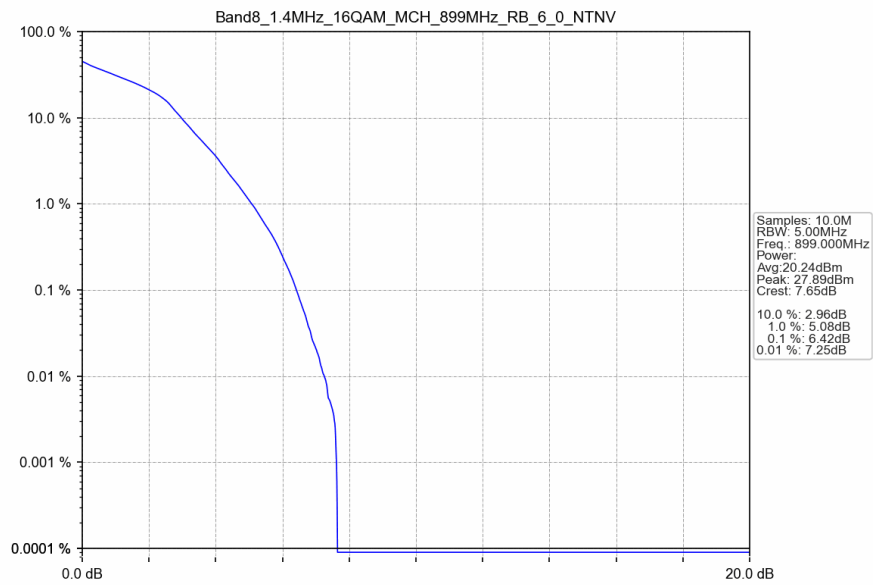
Band8 1.4MHz QPSK HCH 899.8MHz RB 6 0 NTNV



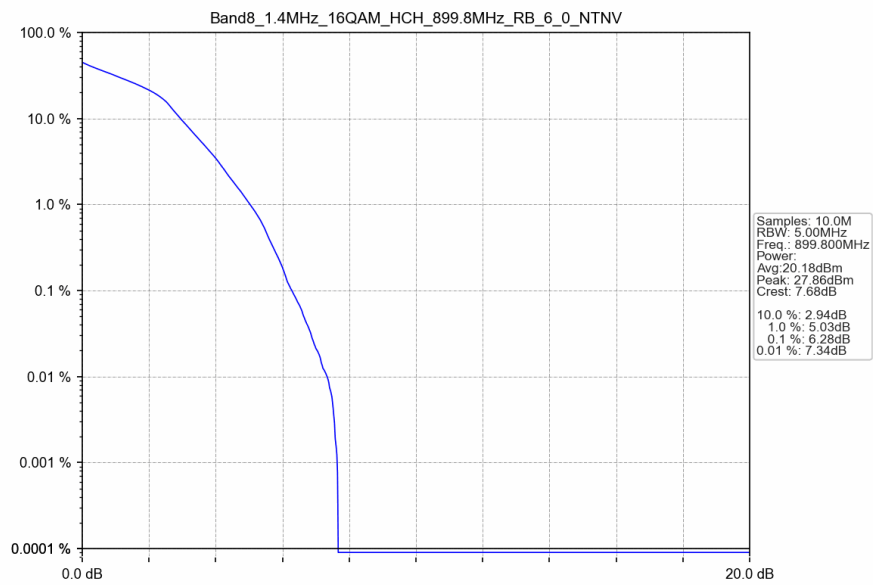
Band8 1.4MHz 16QAM LCH 898.2MHz RB 6 0 NTNV



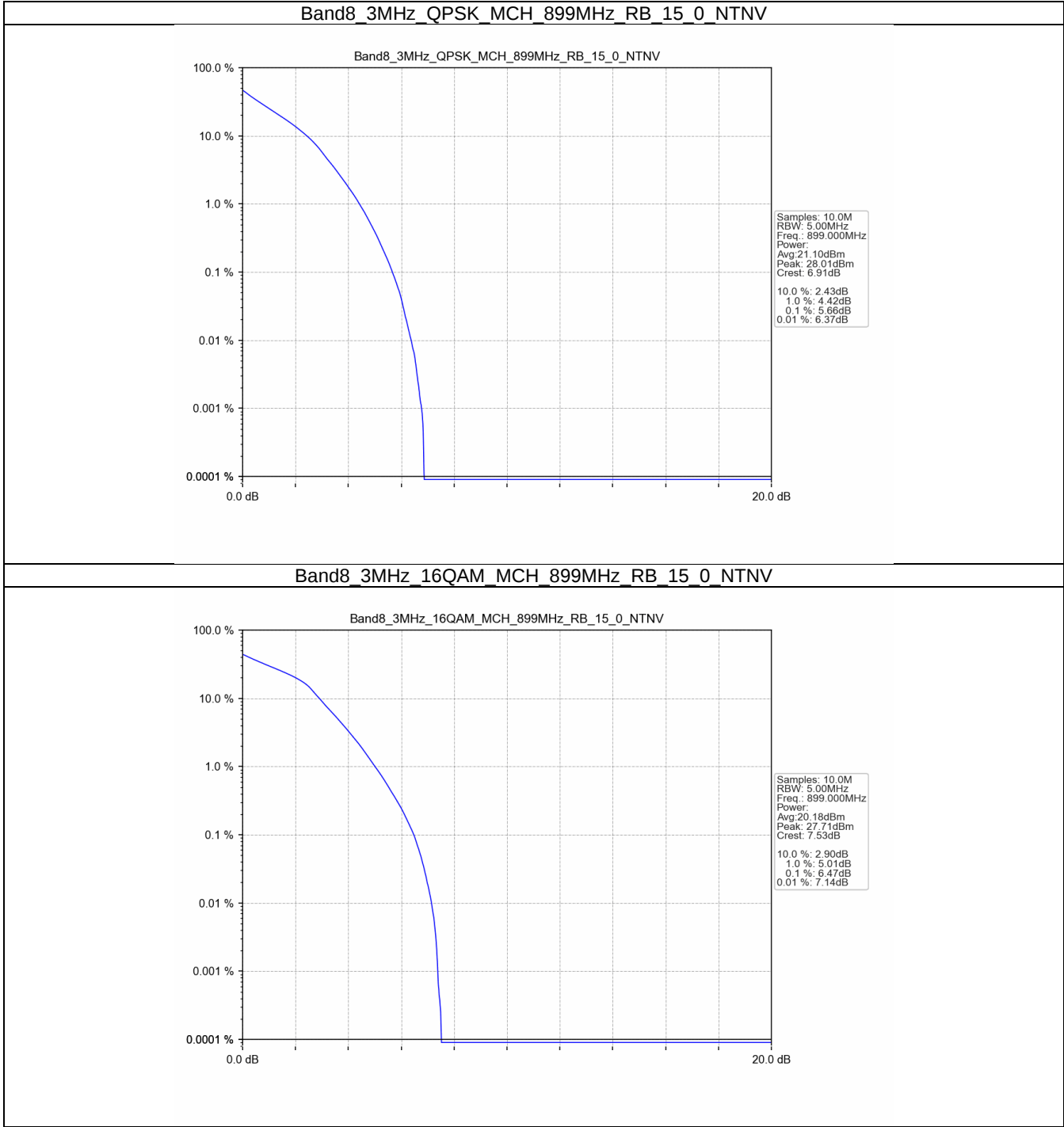
Band8 1.4MHz 16QAM MCH 899MHz RB 6 0 NTNV



Band8 1.4MHz 16QAM HCH 899.8MHz RB 6 0 NTNV



4.2.2 B8_3MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B8_1.4MHz

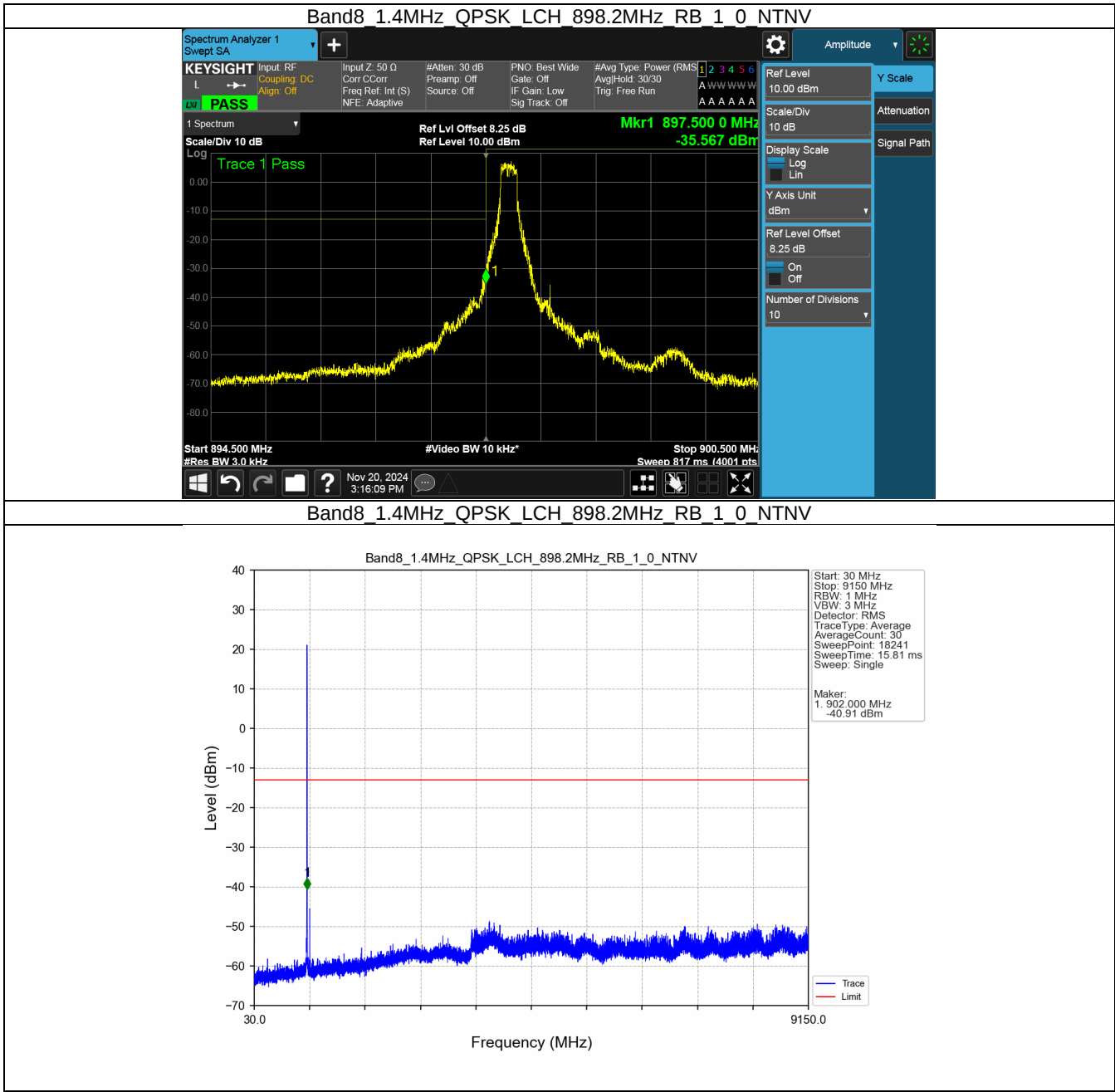
Band: 8 / Bandwidth: 1.4MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	898.2	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	899	1	0	Refer To Test Graph		Pass
		899.8	1	0	Refer To Test Graph	
	5			Refer To Test Graph		Pass
	6		0	Refer To Test Graph		Pass

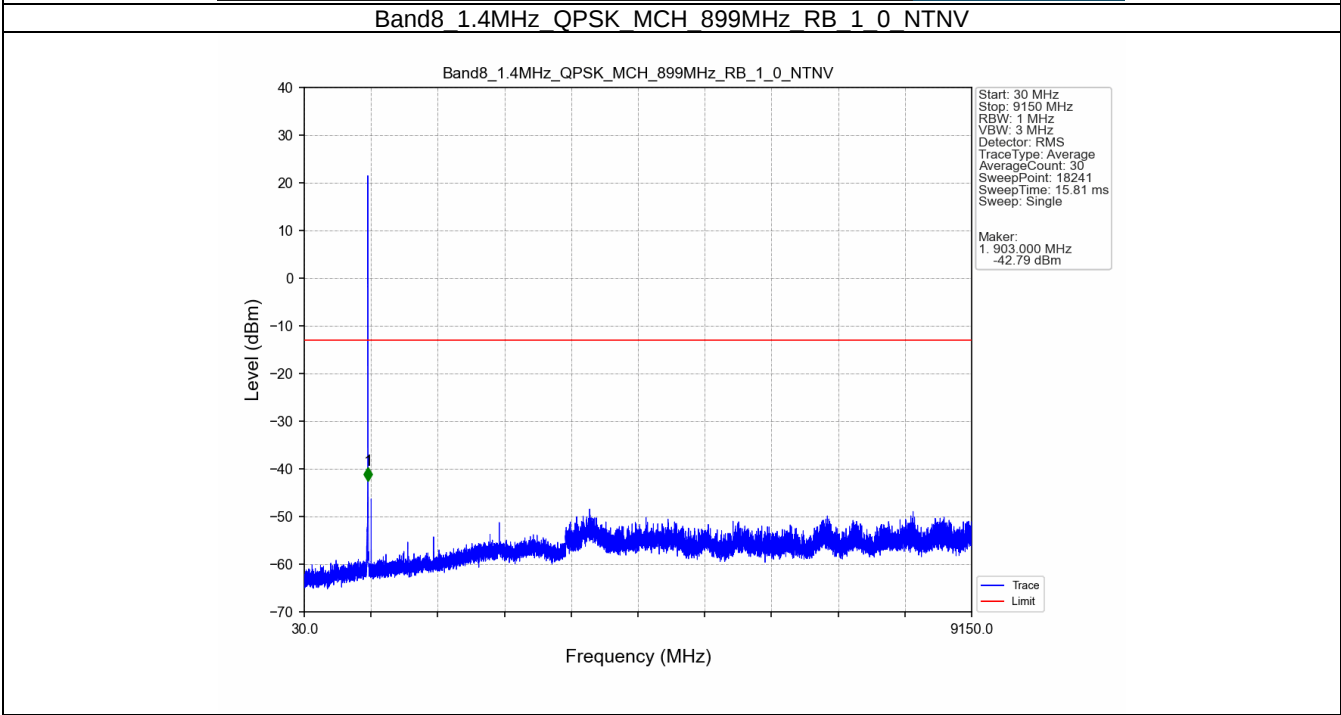
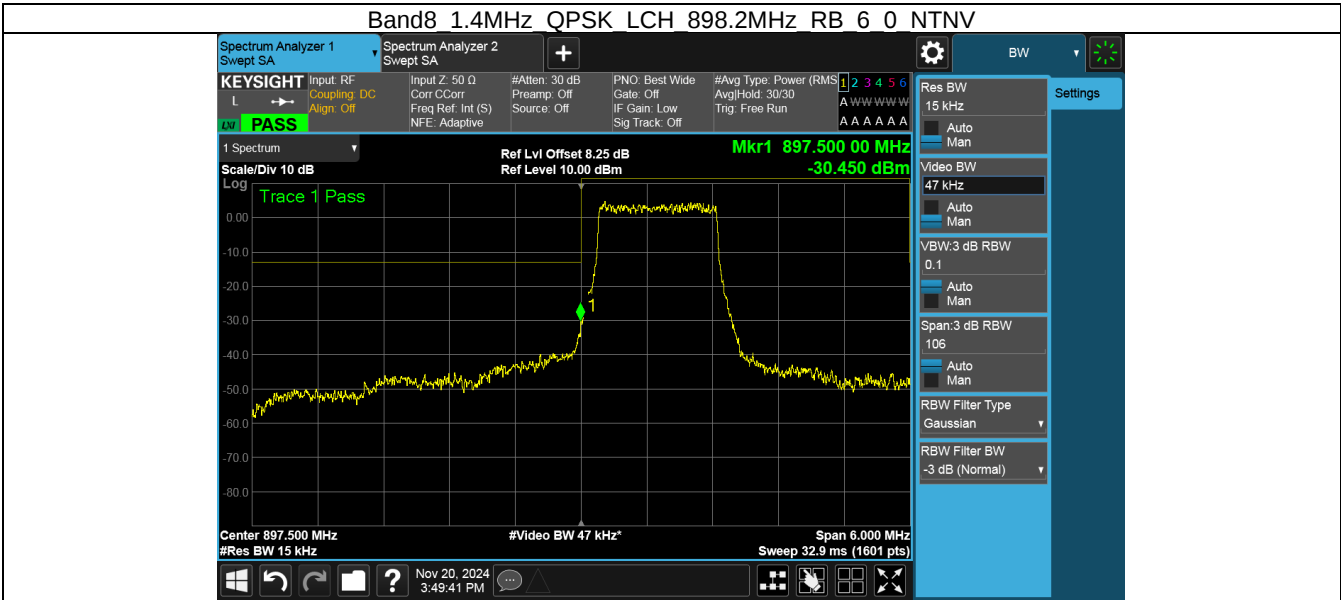
5.1.2 B8_3MHz

Band: 8 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	899	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	899	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

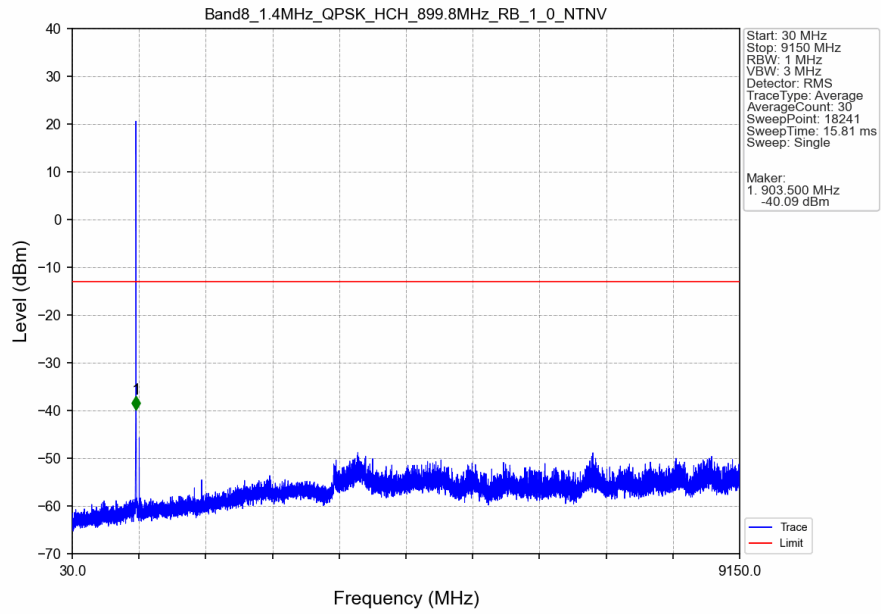
5.2 Test Graph

5.2.1 B8_1.4MHz

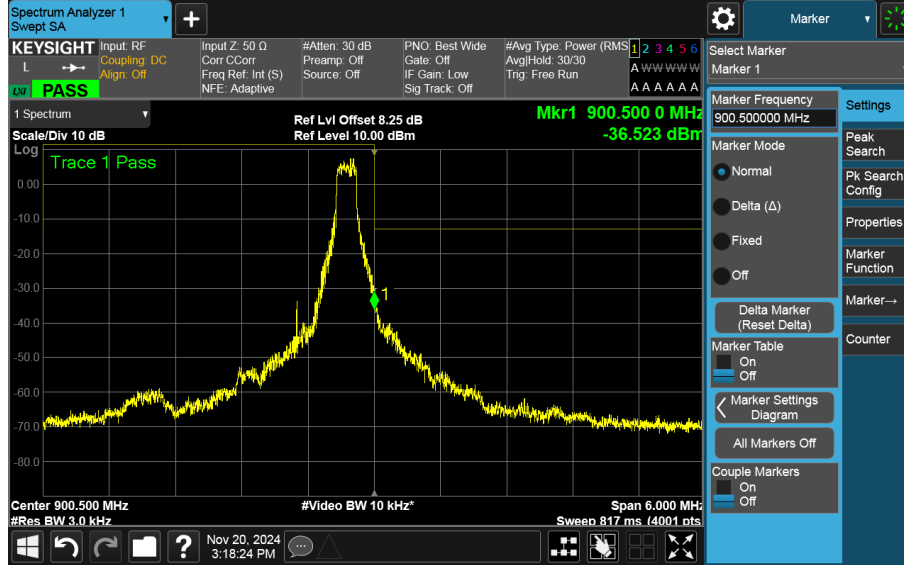


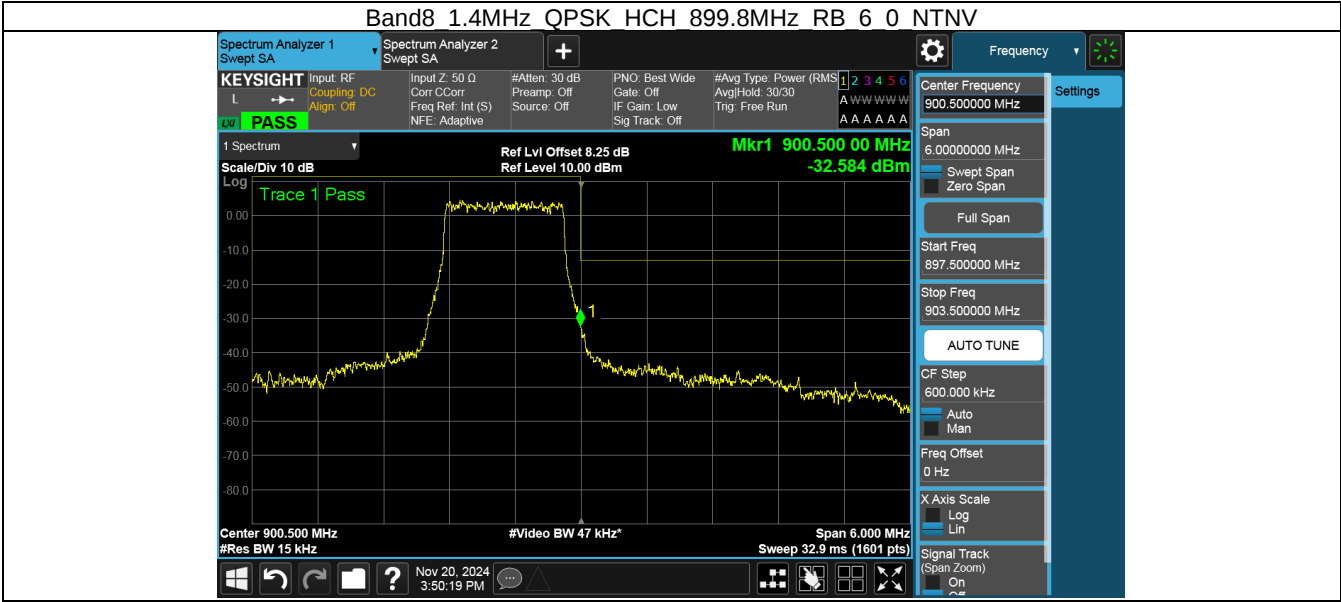


Band8 1.4MHz QPSK HCH 899.8MHz RB 1 0 NTNV



Band8 1.4MHz QPSK HCH 899.8MHz RB 1 5 NTNV





5.2.2 B8_3MHz

