

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B30_5MHz_EIRP

Band: 30 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	23.08	0.00	23.08	<=23.98	Pass
			24	23.02	0.00	23.02	<=23.98	Pass
		25	0	22.11	0.00	22.11	<=23.98	Pass
	2310	1	0	23.00	0.00	23.00	<=23.98	Pass
			24	23.06	0.00	23.06	<=23.98	Pass
		25	0	22.19	0.00	22.19	<=23.98	Pass
	2312.5	1	0	23.22	0.00	23.22	<=23.98	Pass
			24	23.04	0.00	23.04	<=23.98	Pass
		25	0	22.15	0.00	22.15	<=23.98	Pass
16QAM	2307.5	1	0	21.96	0.00	21.96	<=23.98	Pass
			24	22.00	0.00	22.00	<=23.98	Pass
		25	0	21.12	0.00	21.12	<=23.98	Pass
	2310	1	0	22.24	0.00	22.24	<=23.98	Pass
			24	21.99	0.00	21.99	<=23.98	Pass
		25	0	21.15	0.00	21.15	<=23.98	Pass
	2312.5	1	0	22.13	0.00	22.13	<=23.98	Pass
			24	22.10	0.00	22.10	<=23.98	Pass
		25	0	21.12	0.00	21.12	<=23.98	Pass
64QAM	2307.5	1	0	21.16	0.00	21.16	<=23.98	Pass
			24	20.89	0.00	20.89	<=23.98	Pass
		25	0	20.09	0.00	20.09	<=23.98	Pass
	2310	1	0	21.21	0.00	21.21	<=23.98	Pass
			24	21.25	0.00	21.25	<=23.98	Pass
		25	0	20.12	0.00	20.12	<=23.98	Pass
	2312.5	1	0	21.24	0.00	21.24	<=23.98	Pass
			24	21.12	0.00	21.12	<=23.98	Pass
		25	0	20.09	0.00	20.09	<=23.98	Pass
256QAM	2307.5	1	0	18.28	0.00	18.28	<=23.98	Pass
			24	18.27	0.00	18.27	<=23.98	Pass
		25	0	18.21	0.00	18.21	<=23.98	Pass
	2310	1	0	18.31	0.00	18.31	<=23.98	Pass
			24	18.29	0.00	18.29	<=23.98	Pass
		25	0	18.21	0.00	18.21	<=23.98	Pass
	2312.5	1	0	18.32	0.00	18.32	<=23.98	Pass
			24	18.31	0.00	18.31	<=23.98	Pass
		25	0	18.20	0.00	18.20	<=23.98	Pass

Note1: EIRP=Conducted Power+Antenna Gain

1.1.2 B30_5MHz_EIRP/5MHz

Band: 30 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	23.45	0.00	23.45	<=23.98	Pass
			24	23.39	0.00	23.39	<=23.98	Pass
		25	0	21.70	0.00	21.70	<=23.98	Pass
	2310	1	0	23.47	0.00	23.47	<=23.98	Pass

			24	23.37	0.00	23.37	<=23.98	Pass
		25	0	21.65	0.00	21.65	<=23.98	Pass
	2312.5	1	0	23.28	0.00	23.28	<=23.98	Pass
			24	23.31	0.00	23.31	<=23.98	Pass
	25	0	21.68	0.00	21.68	<=23.98	Pass	
16QAM	2307.5	1	0	22.61	0.00	22.61	<=23.98	Pass
			24	22.42	0.00	22.42	<=23.98	Pass
		25	0	20.78	0.00	20.78	<=23.98	Pass
	2310	1	0	22.55	0.00	22.55	<=23.98	Pass
			24	22.70	0.00	22.70	<=23.98	Pass
		25	0	20.70	0.00	20.70	<=23.98	Pass
	2312.5	1	0	22.47	0.00	22.47	<=23.98	Pass
			24	22.51	0.00	22.51	<=23.98	Pass
		25	0	20.72	0.00	20.72	<=23.98	Pass
	64QAM	2307.5	1	0	21.58	0.00	21.58	<=23.98
24				21.65	0.00	21.65	<=23.98	Pass
25			0	19.79	0.00	19.79	<=23.98	Pass
2310		1	0	21.62	0.00	21.62	<=23.98	Pass
			24	21.45	0.00	21.45	<=23.98	Pass
		25	0	19.74	0.00	19.74	<=23.98	Pass
2312.5		1	0	21.55	0.00	21.55	<=23.98	Pass
			24	21.74	0.00	21.74	<=23.98	Pass
		25	0	19.71	0.00	19.71	<=23.98	Pass
256QAM	2307.5	1	0	18.88	0.00	18.88	<=23.98	Pass
			24	18.65	0.00	18.65	<=23.98	Pass
		25	0	17.84	0.00	17.84	<=23.98	Pass
	2310	1	0	18.88	0.00	18.88	<=23.98	Pass
			24	18.75	0.00	18.75	<=23.98	Pass
		25	0	17.82	0.00	17.82	<=23.98	Pass
	2312.5	1	0	18.70	0.00	18.70	<=23.98	Pass
			24	18.63	0.00	18.63	<=23.98	Pass
		25	0	17.85	0.00	17.85	<=23.98	Pass
Note1: EIRP/5MHz=Conducted Power+Antenna Gain-2.15								

1.1.3 B30 10MHz EIRP

Band: 30 / Bandwidth: 10MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	23.14	0.00	23.14	<=23.98	Pass
			49	23.13	0.00	23.13	<=23.98	Pass
		50	0	21.87	0.00	21.87	<=23.98	Pass
16QAM	2310	1	0	22.16	0.00	22.16	<=23.98	Pass
			49	22.41	0.00	22.41	<=23.98	Pass
		50	0	21.11	0.00	21.11	<=23.98	Pass
64QAM	2310	1	0	21.30	0.00	21.30	<=23.98	Pass
			49	21.20	0.00	21.20	<=23.98	Pass
		50	0	19.98	0.00	19.98	<=23.98	Pass
256QAM	2310	1	0	18.41	0.00	18.41	<=23.98	Pass
			49	18.25	0.00	18.25	<=23.98	Pass
		50	0	18.17	0.00	18.17	<=23.98	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

1.1.4 B30 10MHz EIRP/5MHz

Band: 30 / Bandwidth: 10MHz / NTV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	23.43	0.00	23.43	<=23.98	Pass
			49	23.35	0.00	23.35	<=23.98	Pass
		50	0	19.67	0.00	19.67	<=23.98	Pass
16QAM	2310	1	0	22.59	0.00	22.59	<=23.98	Pass
			49	22.47	0.00	22.47	<=23.98	Pass
		50	0	18.73	0.00	18.73	<=23.98	Pass
64QAM	2310	1	0	21.43	0.00	21.43	<=23.98	Pass
			49	21.58	0.00	21.58	<=23.98	Pass
		50	0	17.80	0.00	17.80	<=23.98	Pass
256QAM	2310	1	0	18.69	0.00	18.69	<=23.98	Pass
			49	18.49	0.00	18.49	<=23.98	Pass
		50	0	15.84	0.00	15.84	<=23.98	Pass

2. Frequency Stability

2.1 Test Result

2.1.1 B30_10MHz

Band: 30 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	LV	-7.300	-0.0032	-2.5 to 2.5	Pass
					NV	-6.500	-0.0028	-2.5 to 2.5	Pass
					HV	-9.400	-0.0041	-2.5 to 2.5	Pass
				-30	NV	0.000	0.0000	-2.5 to 2.5	Pass
				-20	NV	-0.500	-0.0002	-2.5 to 2.5	Pass
				-10	NV	-2.000	-0.0009	-2.5 to 2.5	Pass
				0	NV	-5.800	-0.0025	-2.5 to 2.5	Pass
				10	NV	-8.500	-0.0037	-2.5 to 2.5	Pass
				30	NV	-7.200	-0.0031	-2.5 to 2.5	Pass
				40	NV	-1.500	-0.0006	-2.5 to 2.5	Pass
				50	NV	-3.000	-0.0013	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band30_OBW

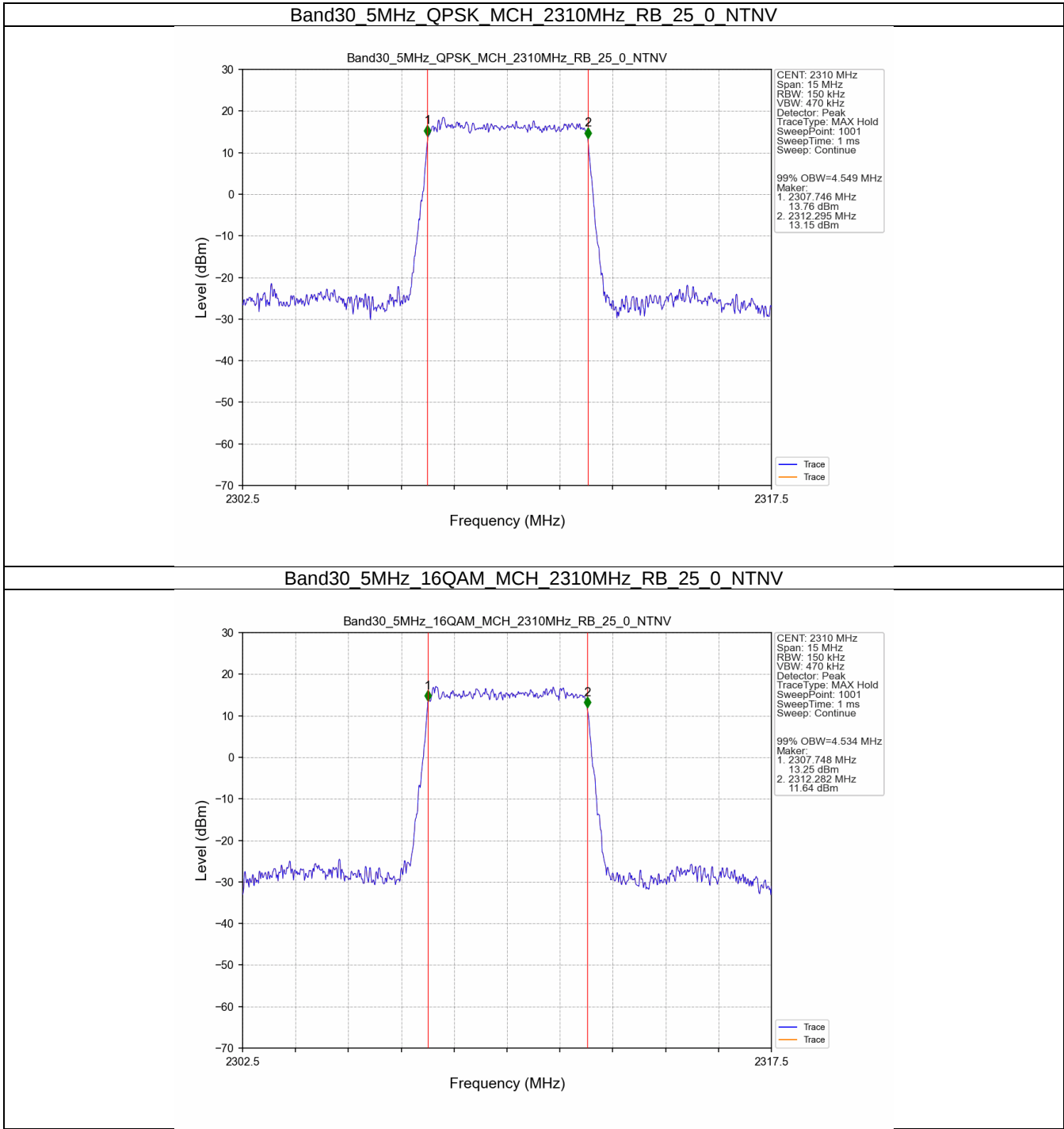
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2310	25	0	4.549	/	Pass
	16QAM	2310	25	0	4.534	/	Pass
10	QPSK	2310	50	0	9.041	/	Pass
	16QAM	2310	50	0	9.026	/	Pass

3.1.2 Band30_XDB

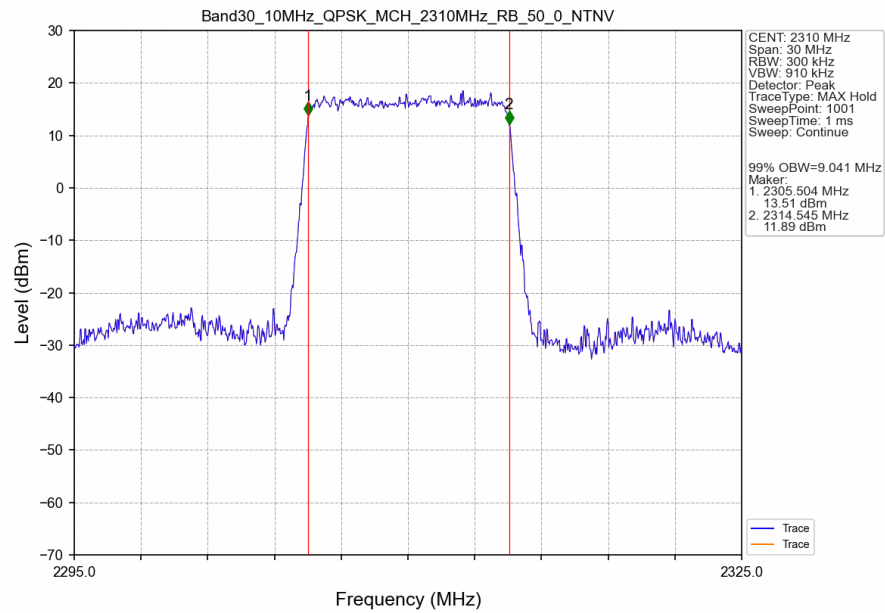
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2310	25	0	5.024	/	Pass
	16QAM	2310	25	0	5.041	/	Pass
10	QPSK	2310	50	0	9.913	/	Pass
	16QAM	2310	50	0	9.897	/	Pass

3.2 Test Graph

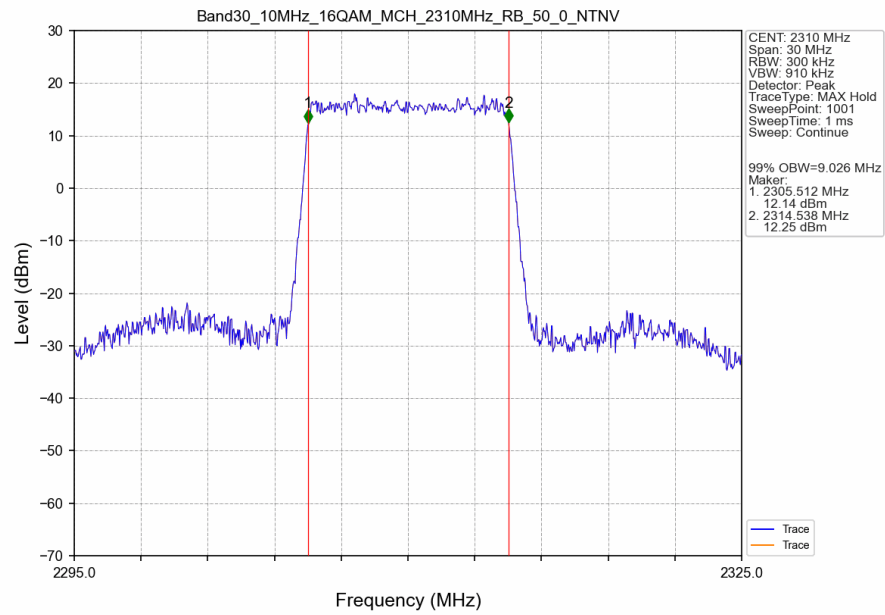
3.2.1 Band30_OBW



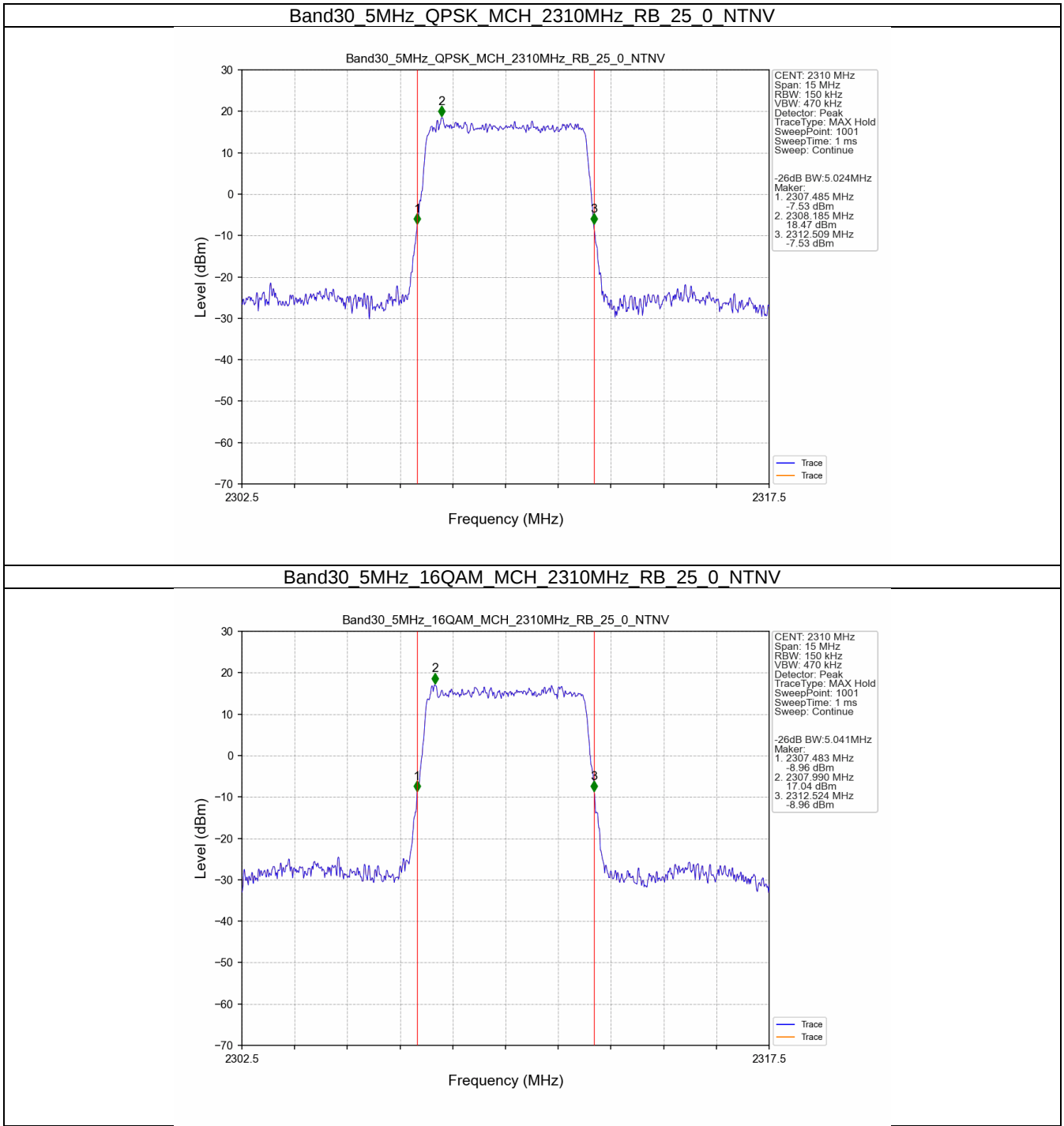
Band30 10MHz QPSK MCH 2310MHz RB 50 0 NTV



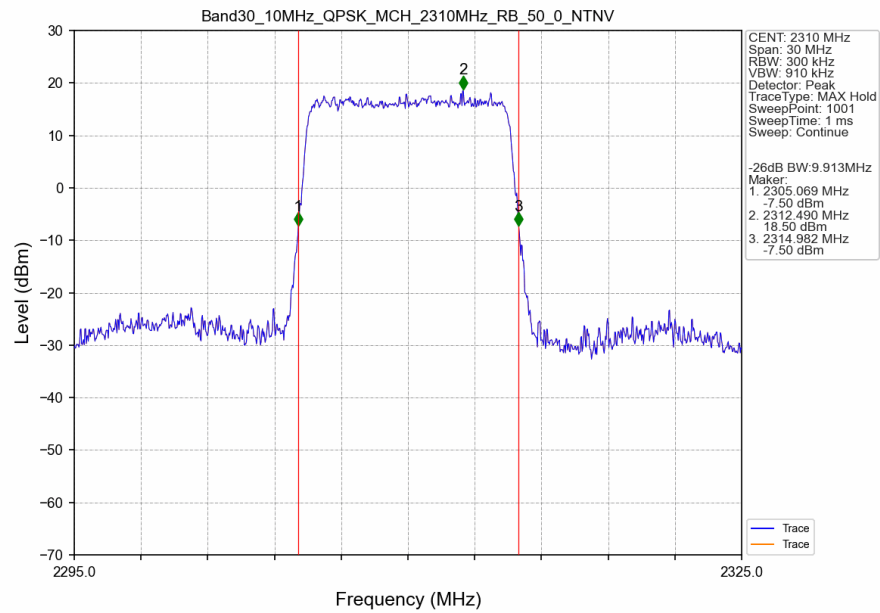
Band30 10MHz 16QAM MCH 2310MHz RB 50 0 NTV



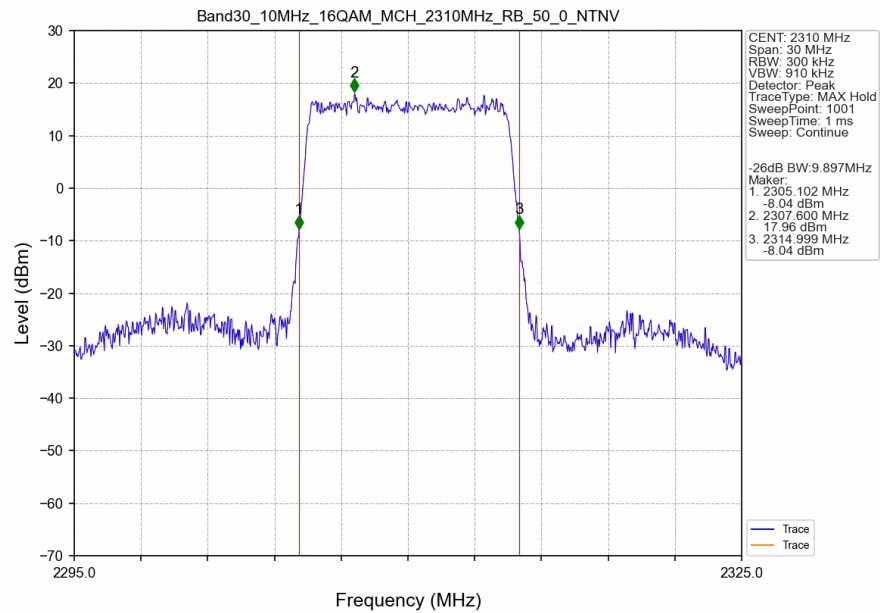
3.2.2 Band30_XDB



Band30 10MHz QPSK MCH 2310MHz RB 50 0 NTN



Band30 10MHz 16QAM MCH 2310MHz RB 50 0 NTN



4. Peak-Average Ratio

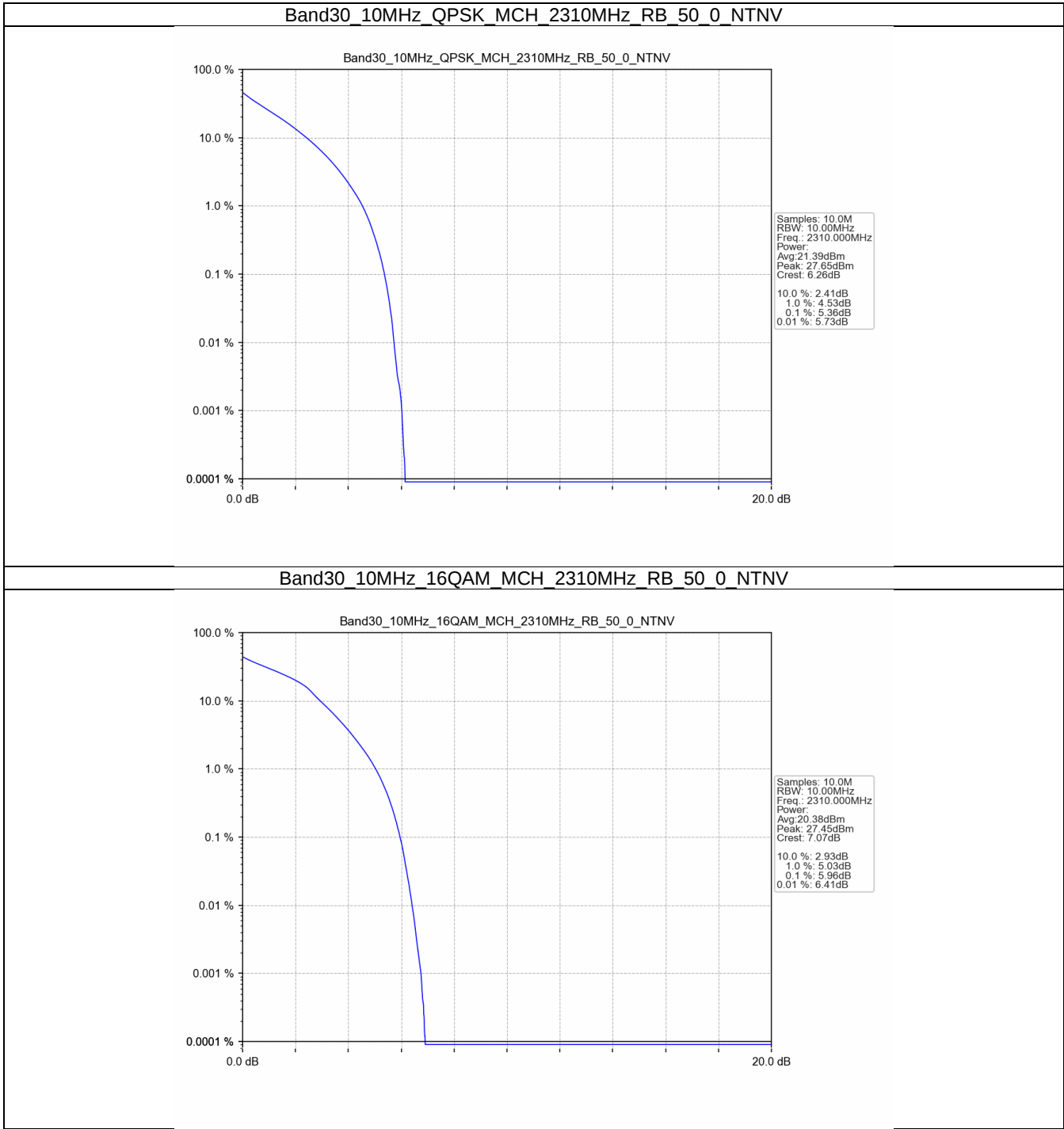
4.1 Test Result

4.1.1 B30_10MHz

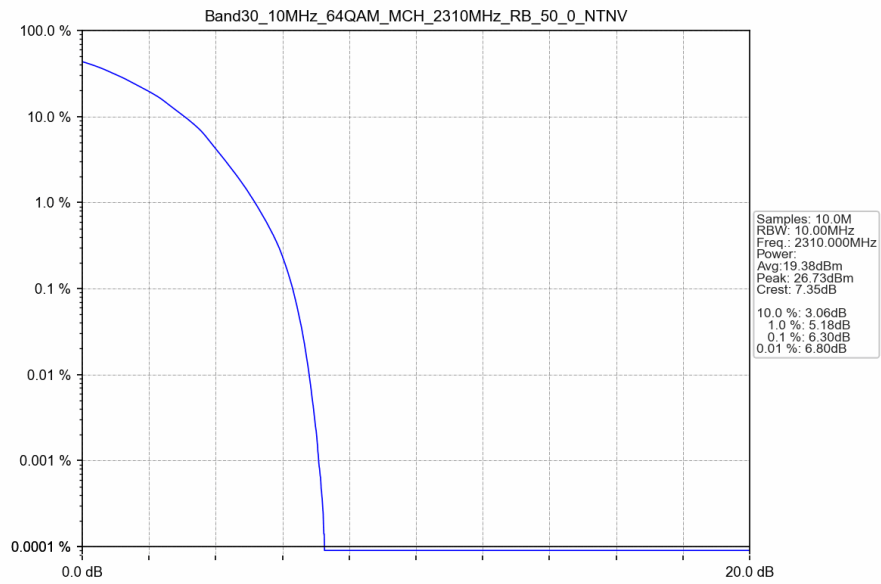
Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.36	<=13	Pass
16QAM	2310	50	0	5.96	<=13	Pass
64QAM	2310	50	0	6.30	<=13	Pass
256QAM	2310	50	0	6.58	<=13	Pass

4.2 Test Graph

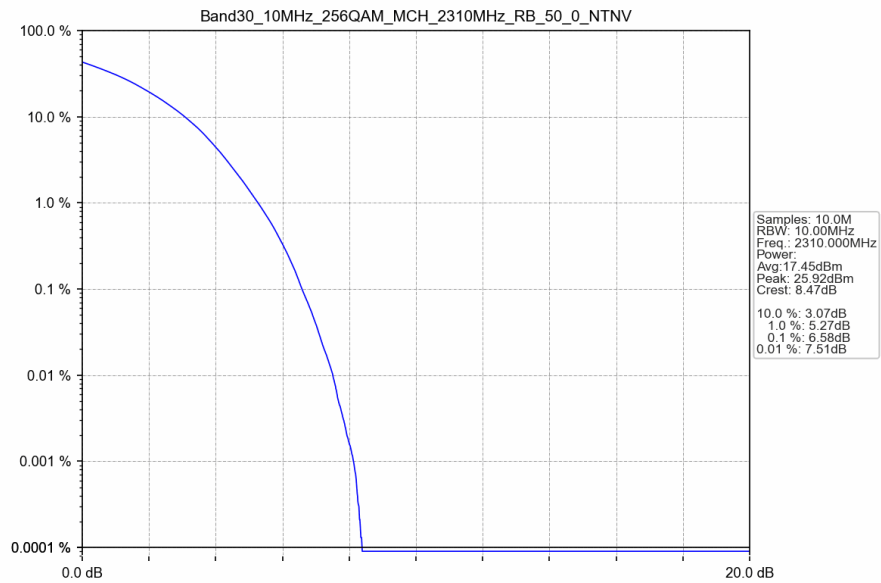
4.2.1 B30_10MHz



Band30 10MHz 64QAM MCH 2310MHz RB 50 0 NTN



Band30 10MHz 256QAM MCH 2310MHz RB 50 0 NTN



5. Spurious Emission

5.1 Test Result

5.1.1 B30_5MHz

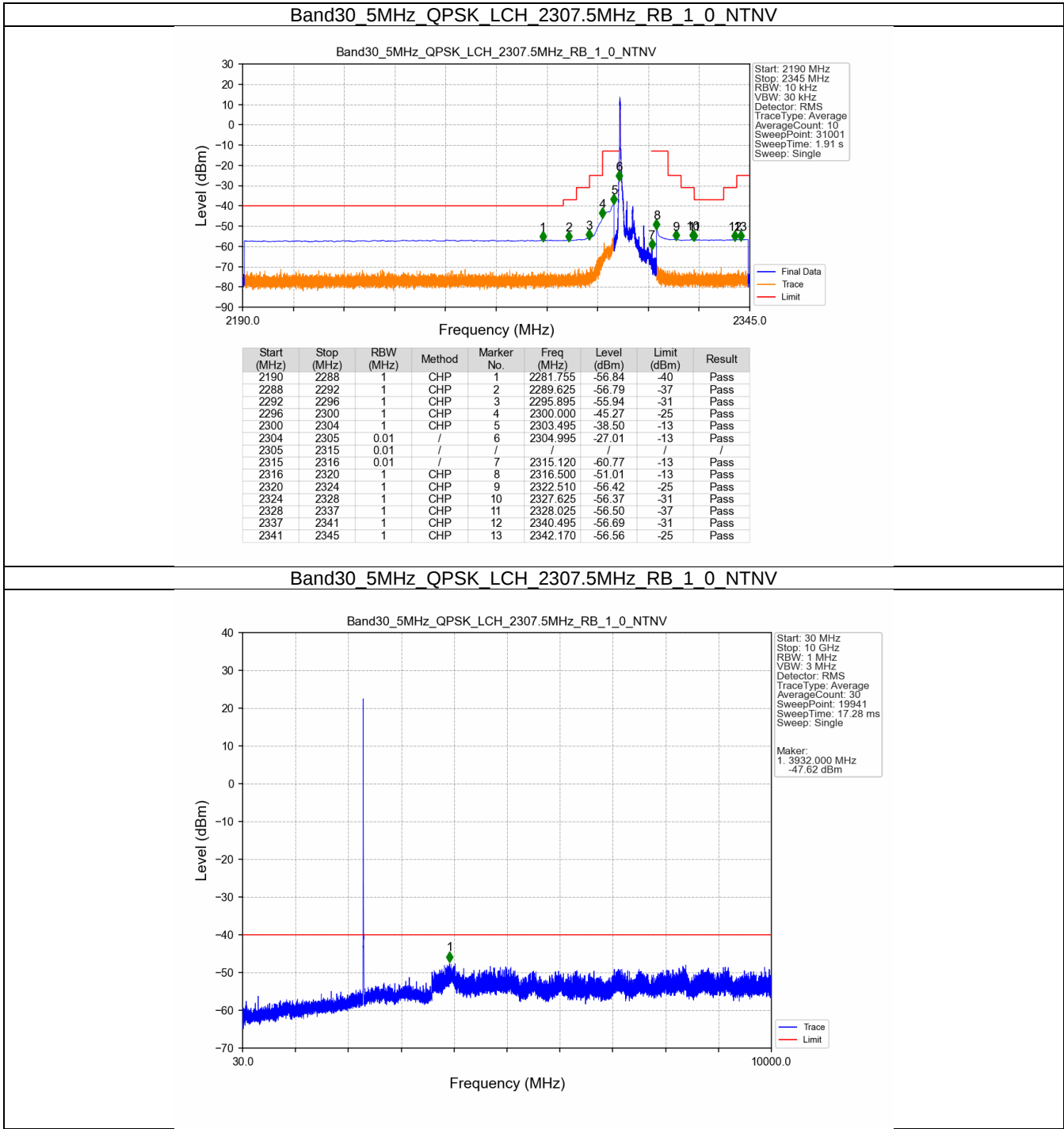
Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B30_10MHz

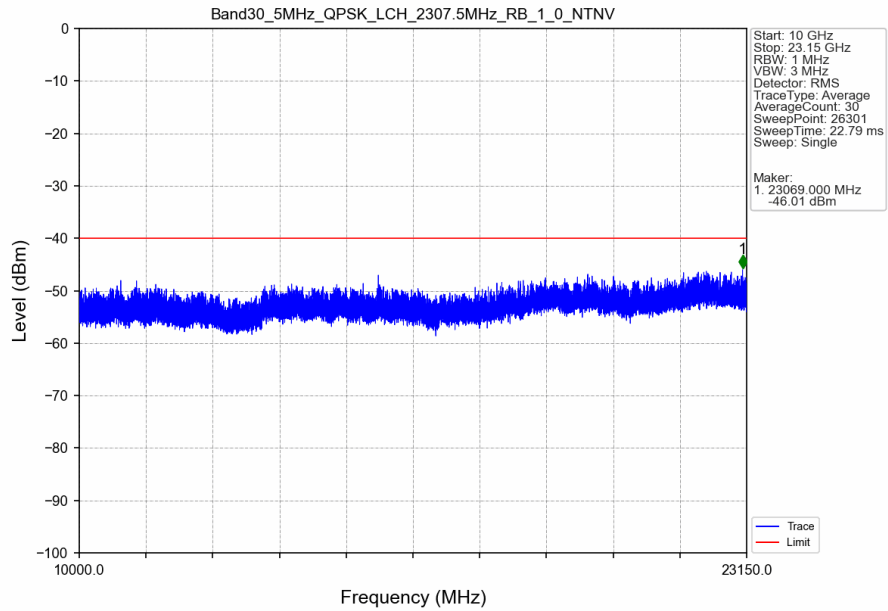
Band: 30 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

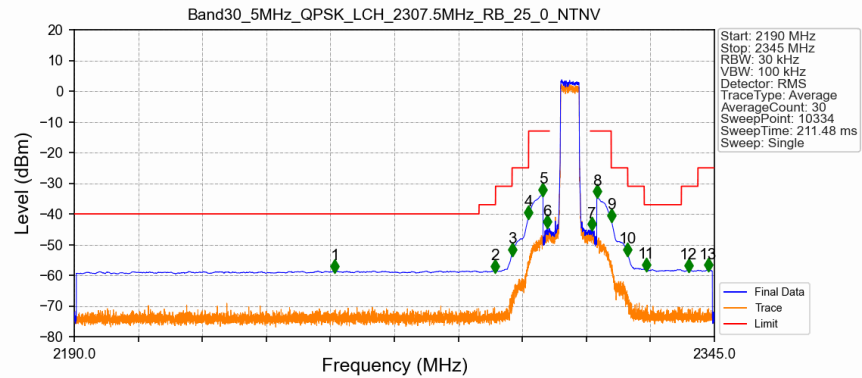
5.2.1 B30_5MHz



Band30 5MHz QPSK LCH 2307.5MHz RB 1 0 NTNV

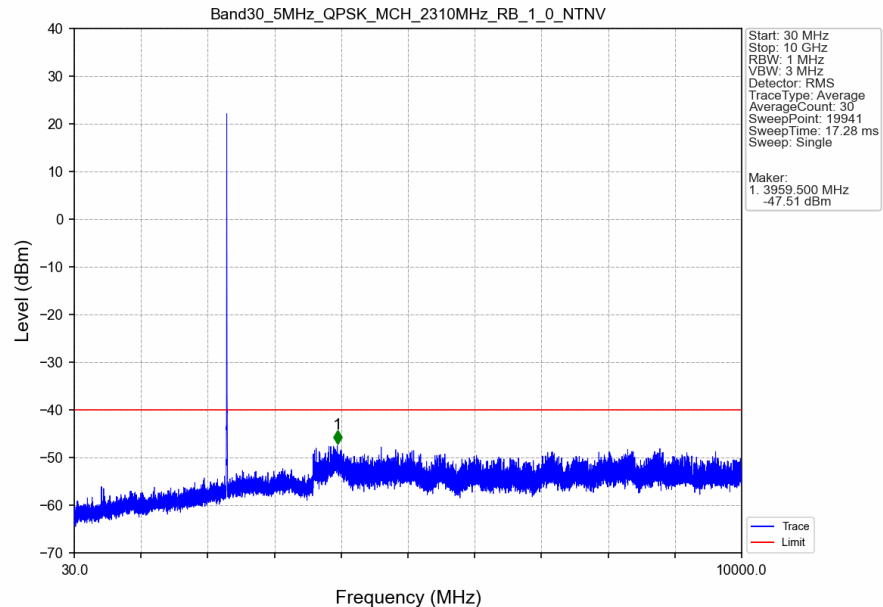


Band30 5MHz QPSK LCH 2307.5MHz RB 25 0 NTNV

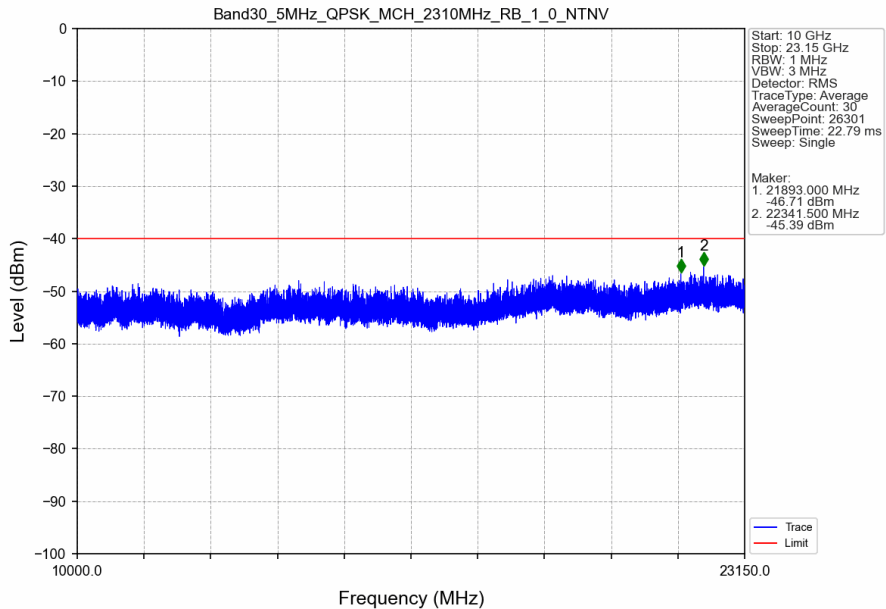


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2253.107	-58.56	-40	Pass
2288	2292	1	CHP	2	2291.943	-58.53	-37	Pass
2292	2296	1	CHP	3	2295.993	-53.21	-31	Pass
2296	2300	1	CHP	4	2299.999	-41.10	-25	Pass
2300	2304	1	CHP	5	2303.494	-33.58	-13	Pass
2304	2305	0.05	CHP	6	2304.469	-44.16	-13	Pass
2305	2315	0.05	CHP	/	/	/	/	/
2315	2316	0.05	CHP	7	2315.344	-44.86	-13	Pass
2316	2320	1	CHP	8	2316.514	-34.29	-13	Pass
2320	2324	1	CHP	9	2320.009	-42.08	-25	Pass
2324	2328	1	CHP	10	2324.014	-53.19	-31	Pass
2328	2337	1	CHP	11	2328.469	-58.04	-37	Pass
2337	2341	1	CHP	12	2338.745	-58.27	-31	Pass
2341	2345	1	CHP	13	2343.455	-58.24	-25	Pass

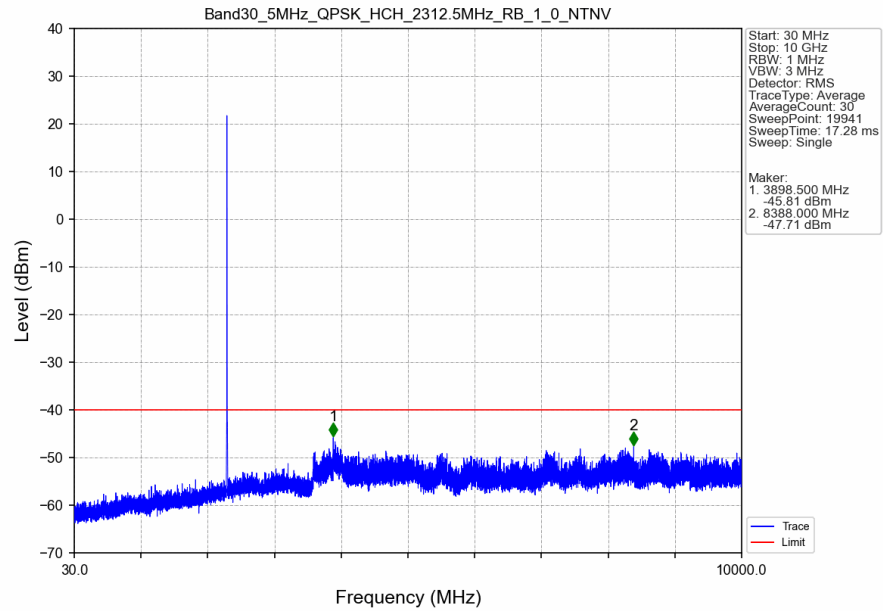
Band30 5MHz QPSK MCH 2310MHz RB 1 0 NTN



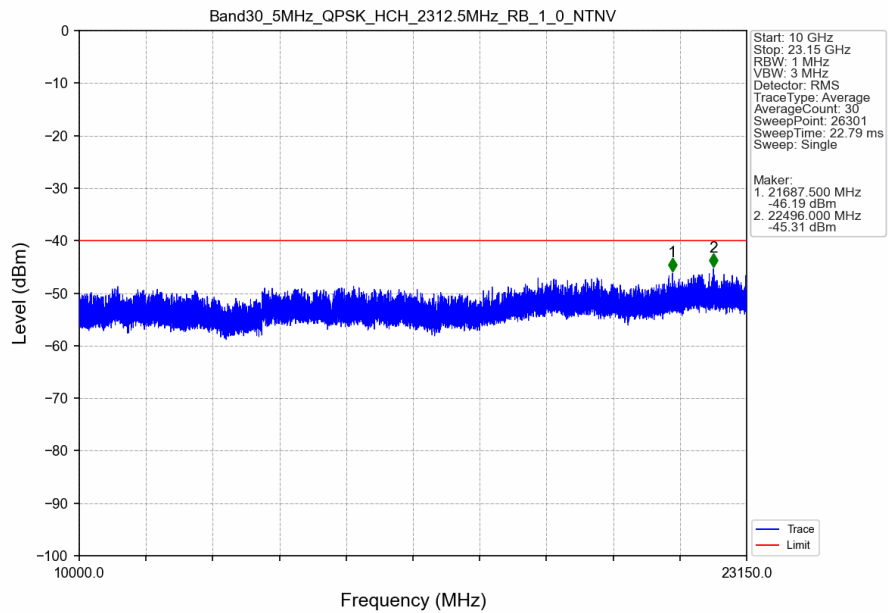
Band30 5MHz QPSK MCH 2310MHz RB 1 0 NTN



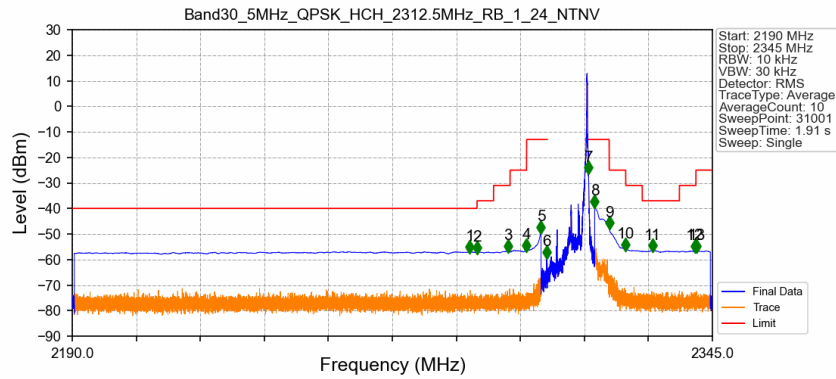
Band30 5MHz QPSK HCH 2312.5MHz RB 1 0 NTV



Band30 5MHz QPSK HCH 2312.5MHz RB 1 0 NTV

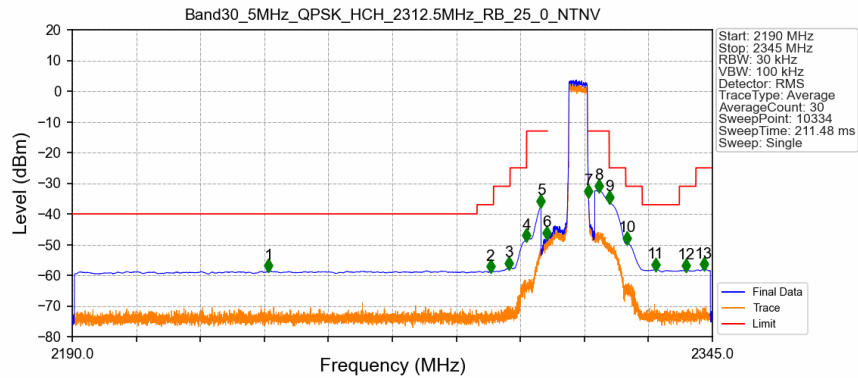


Band30 5MHz QPSK HCH 2312.5MHz RB 1 24 NTV



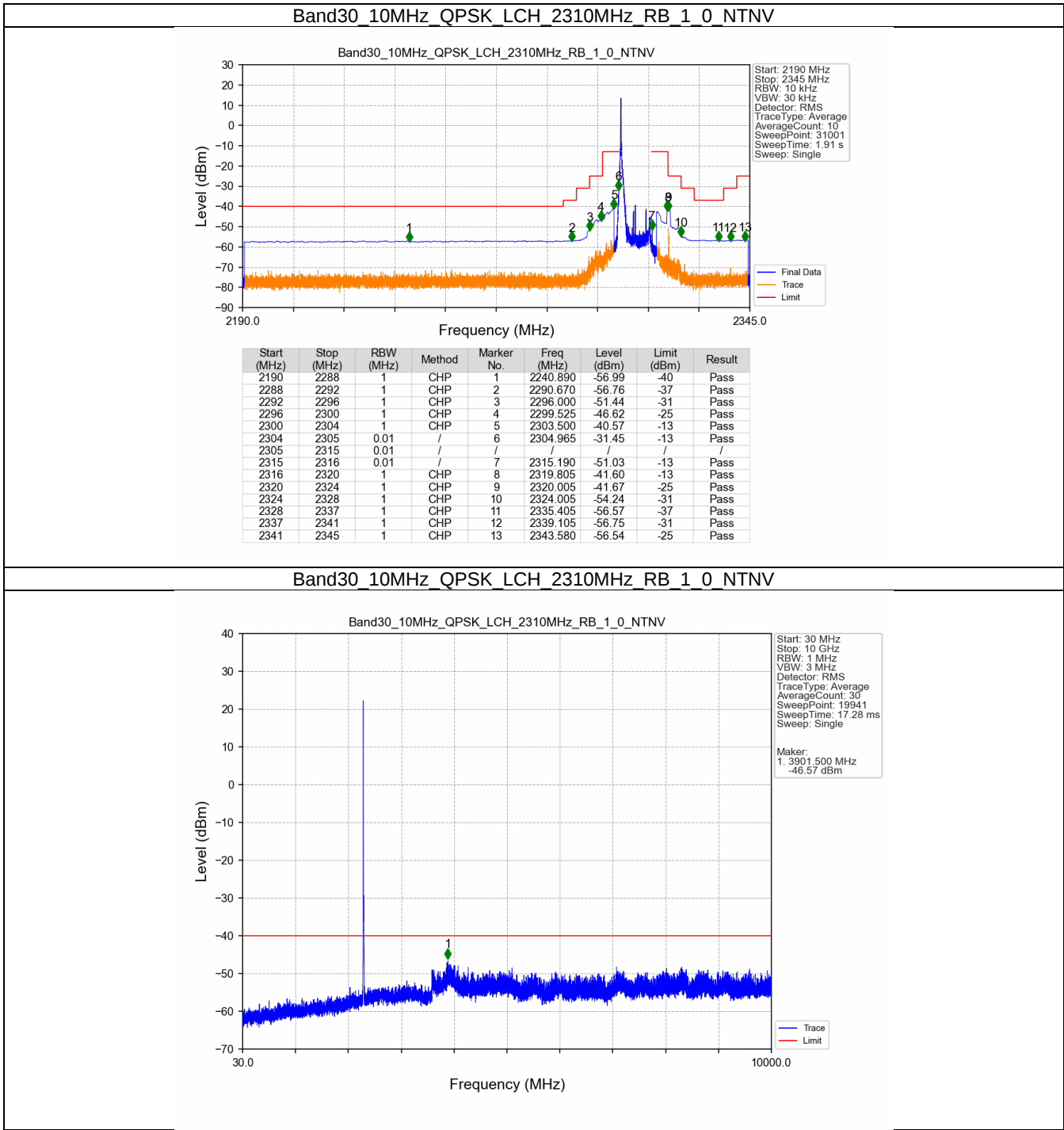
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2286.225	-56.88	-40	Pass
2288	2292	1	CHP	2	2288.065	-57.10	-37	Pass
2292	2296	1	CHP	3	2295.585	-56.67	-31	Pass
2296	2300	1	CHP	4	2299.980	-56.39	-25	Pass
2300	2304	1	CHP	5	2303.500	-49.29	-13	Pass
2304	2305	0.01	/	6	2304.870	-59.02	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.010	-25.96	-13	Pass
2316	2320	1	CHP	8	2316.500	-39.20	-13	Pass
2320	2324	1	CHP	9	2320.005	-47.57	-25	Pass
2324	2328	1	CHP	10	2324.005	-55.94	-31	Pass
2328	2337	1	CHP	11	2330.475	-56.48	-37	Pass
2337	2341	1	CHP	12	2340.725	-56.63	-31	Pass
2341	2345	1	CHP	13	2341.160	-56.61	-25	Pass

Band30 5MHz QPSK HCH 2312.5MHz RB 25 0 NTV

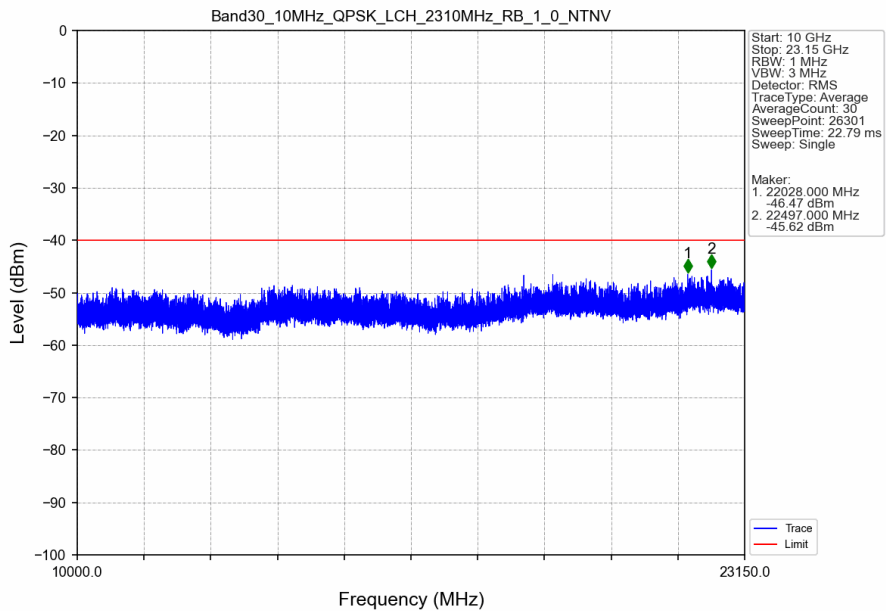


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2237.507	-58.49	-40	Pass
2288	2292	1	CHP	2	2291.253	-58.68	-37	Pass
2292	2296	1	CHP	3	2295.663	-57.65	-31	Pass
2296	2300	1	CHP	4	2299.999	-48.56	-25	Pass
2300	2304	1	CHP	5	2303.494	-37.34	-13	Pass
2304	2305	0.05	CHP	6	2304.934	-47.70	-13	Pass
2305	2315	0.05	CHP	/	/	/	/	/
2315	2316	0.05	CHP	7	2315.014	-34.08	-13	Pass
2316	2320	1	CHP	8	2317.474	-32.38	-13	Pass
2320	2324	1	CHP	9	2320.009	-36.18	-25	Pass
2324	2328	1	CHP	10	2324.344	-49.48	-31	Pass
2328	2337	1	CHP	11	2331.185	-58.10	-37	Pass
2337	2341	1	CHP	12	2338.670	-58.36	-31	Pass
2341	2345	1	CHP	13	2342.945	-57.94	-25	Pass

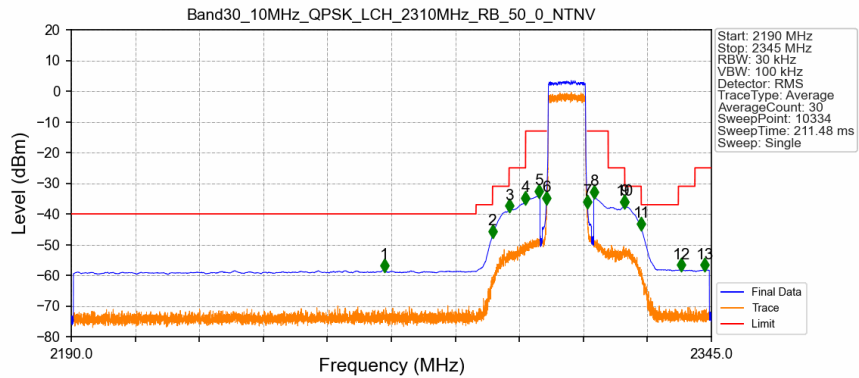
5.2.2 B30_10MHz



Band30 10MHz QPSK LCH 2310MHz RB 1 0 NTNV

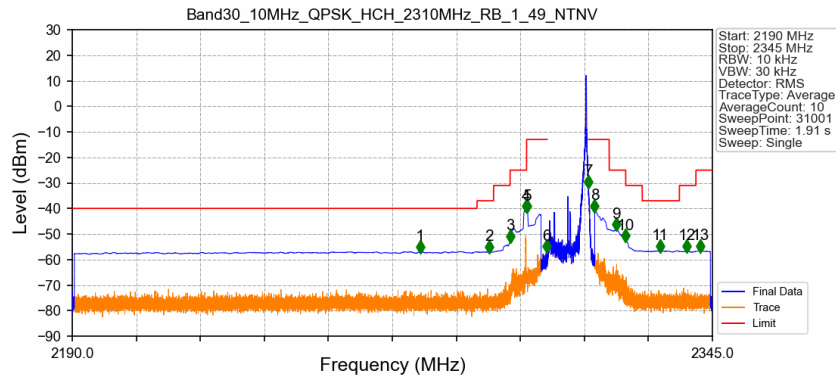


Band30 10MHz QPSK LCH 2310MHz RB 50 0 NTNV



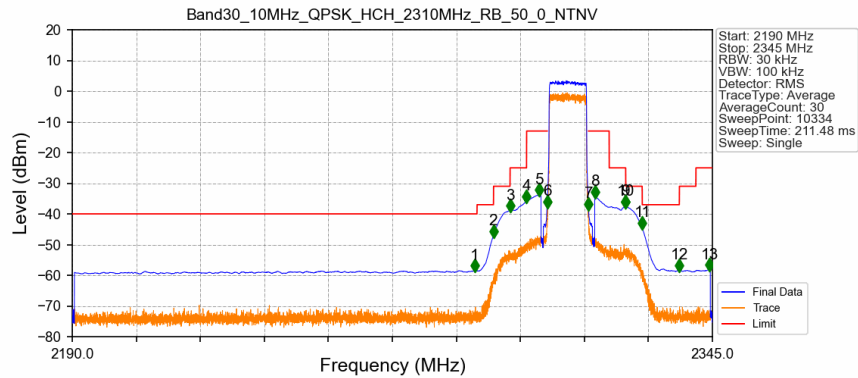
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2265.767	-58.33	-40	Pass
2288	2292	1	CHP	2	2291.988	-47.25	-37	Pass
2292	2296	1	CHP	3	2295.993	-38.92	-31	Pass
2296	2300	1	CHP	4	2299.984	-36.29	-25	Pass
2300	2304	1	CHP	5	2303.269	-34.10	-13	Pass
2304	2305	0.099	CHP	6	2304.994	-36.43	-13	Pass
2305	2315	0.099	CHP	/	/	/	/	/
2315	2316	0.099	CHP	7	2315.014	-37.66	-13	Pass
2316	2320	1	CHP	8	2316.514	-34.31	-13	Pass
2320	2324	1	CHP	9	2323.969	-37.57	-25	Pass
2324	2328	1	CHP	10	2324.014	-37.57	-31	Pass
2328	2337	1	CHP	11	2328.004	-44.74	-37	Pass
2337	2341	1	CHP	12	2337.650	-58.20	-31	Pass
2341	2345	1	CHP	13	2343.335	-58.24	-25	Pass

Band30 10MHz QPSK HCH 2310MHz RB 1 49 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2274.270	-56.86	-40	Pass
2288	2292	1	CHP	2	2290.910	-56.95	-37	Pass
2292	2296	1	CHP	3	2296.000	-52.68	-31	Pass
2296	2300	1	CHP	4	2299.885	-41.06	-25	Pass
2300	2304	1	CHP	5	2300.160	-41.03	-13	Pass
2304	2305	0.01	/	6	2304.815	-56.77	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.020	-31.48	-13	Pass
2316	2320	1	CHP	8	2316.500	-40.93	-13	Pass
2320	2324	1	CHP	9	2321.715	-48.18	-25	Pass
2324	2328	1	CHP	10	2324.005	-52.56	-31	Pass
2328	2337	1	CHP	11	2332.390	-56.54	-37	Pass
2337	2341	1	CHP	12	2338.810	-56.60	-31	Pass
2341	2345	1	CHP	13	2342.075	-56.59	-25	Pass

Band30 10MHz QPSK HCH 2310MHz RB 50 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.428	-58.45	-40	Pass
2288	2292	1	CHP	2	2291.988	-47.14	-37	Pass
2292	2296	1	CHP	3	2295.993	-38.95	-31	Pass
2296	2300	1	CHP	4	2299.999	-35.90	-25	Pass
2300	2304	1	CHP	5	2303.089	-33.79	-13	Pass
2304	2305	0.099	CHP	6	2304.994	-37.52	-13	Pass
2305	2315	0.099	CHP	/	/	/	/	/
2315	2316	0.099	CHP	7	2315.014	-38.34	-13	Pass
2316	2320	1	CHP	8	2316.514	-34.40	-13	Pass
2320	2324	1	CHP	9	2323.909	-37.51	-25	Pass
2324	2328	1	CHP	10	2324.014	-37.56	-31	Pass
2328	2337	1	CHP	11	2328.004	-44.58	-37	Pass
2337	2341	1	CHP	12	2337.005	-58.34	-31	Pass
2341	2345	1	CHP	13	2344.280	-58.18	-25	Pass

6. Field Strength of Spurious Radiation

LTE Band 30-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4611.0	-61.97	-40	-21.97	-67.13	4.4	9.56	Horizontal	Pass
6916.5	-60.88	-40	-20.88	-66.99	4.91	11.02	Horizontal	Pass
9222.0	-57.08	-40	-17.08	-65.06	5.24	13.22	Horizontal	Pass
4611.0	-59.41	-40	-19.41	-64.57	4.4	9.56	Vertical	Pass
6916.5	-59.38	-40	-19.38	-65.49	4.91	11.02	Vertical	Pass
9222.0	-53.13	-40	-13.13	-61.11	5.24	13.22	Vertical	Pass

LTE Band 30-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4610.5	-61.43	-40	-21.43	-66.59	4.4	9.56	Horizontal	Pass
6915.75	-61.18	-40	-21.18	-67.29	4.91	11.02	Horizontal	Pass
9221.0	-57.06	-40	-17.06	-65.04	5.24	13.22	Horizontal	Pass
4610.5	-60.78	-40	-20.78	-65.94	4.4	9.56	Vertical	Pass
6915.75	-59.35	-40	-19.35	-65.46	4.91	11.02	Vertical	Pass
9221.0	-50.71	-40	-10.71	-58.69	5.24	13.22	Vertical	Pass

LTE Band 30-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4615.5	-63.74	-40	-23.74	-68.91	4.4	9.57	Horizontal	Pass
6923.25	-61.33	-40	-21.33	-67.45	4.91	11.03	Horizontal	Pass
9231.0	-55.97	-40	-15.97	-63.95	5.24	13.22	Horizontal	Pass
4615.5	-61.71	-40	-21.71	-66.88	4.4	9.57	Vertical	Pass
6923.25	-59.16	-40	-19.16	-65.28	4.91	11.03	Vertical	Pass
9231.0	-51.19	-40	-11.19	-59.17	5.24	13.22	Vertical	Pass

LTE Band 30-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
4620.5	-63.55	-40	-23.55	-68.73	4.4	9.58	Horizontal	Pass
6930.75	-61.32	-40	-21.32	-67.45	4.91	11.04	Horizontal	Pass
9241.0	-57.13	-40	-17.13	-65.1	5.25	13.22	Horizontal	Pass
4620.5	-59.71	-40	-19.71	-64.89	4.4	9.58	Vertical	Pass
6930.75	-59.56	-40	-19.56	-65.69	4.91	11.04	Vertical	Pass
9241.0	-52.11	-40	-12.11	-60.08	5.25	13.22	Vertical	Pass