

1. Effective (Isotropic) Radiated Power Output Data (External Antenna)

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	22.33	1.19	23.52	/	/
			13	22.36	1.19	23.55	/	/
			24	22.33	1.19	23.52	/	/
		12	0	21.04	1.19	22.23	/	/
			6	21.15	1.19	22.34	/	/
			13	20.98	1.19	22.17	/	/
		25	0	21.13	1.19	22.32	/	/
	2310	1	0	22.42	1.19	23.61	/	/
			13	22.43	1.19	23.62	/	/
			24	22.45	1.19	23.64	/	/
		12	0	21.40	1.19	22.59	/	/
			6	21.30	1.19	22.49	/	/
			13	21.20	1.19	22.39	/	/
		25	0	21.25	1.19	22.44	/	/
	2312.5	1	0	22.29	1.19	23.48	/	/
			13	22.58	1.19	23.77	/	/
			24	22.37	1.19	23.56	/	/
		12	0	21.28	1.19	22.47	/	/
			6	21.48	1.19	22.67	/	/
			13	21.36	1.19	22.55	/	/
		25	0	21.46	1.19	22.65	/	/
16QAM	2307.5	1	0	20.87	1.19	22.06	/	/
			13	20.94	1.19	22.13	/	/
			24	20.76	1.19	21.95	/	/
		12	0	20.12	1.19	21.31	/	/
			6	20.15	1.19	21.34	/	/
			13	20.19	1.19	21.38	/	/
		25	0	20.13	1.19	21.32	/	/
	2310	1	0	21.20	1.19	22.39	/	/
			13	21.22	1.19	22.41	/	/
			24	20.84	1.19	22.03	/	/
		12	0	20.30	1.19	21.49	/	/
			6	20.45	1.19	21.64	/	/
			13	20.20	1.19	21.39	/	/
		25	0	20.24	1.19	21.43	/	/
	2312.5	1	0	21.35	1.19	22.54	/	/
			13	21.32	1.19	22.51	/	/
			24	21.10	1.19	22.29	/	/
		12	0	20.35	1.19	21.54	/	/
			6	20.61	1.19	21.80	/	/
			13	20.41	1.19	21.60	/	/
		25	0	20.31	1.19	21.50	/	/
64QAM	2307.5	1	0	20.57	1.19	21.76	/	/
			13	20.90	1.19	22.09	/	/
			24	20.21	1.19	21.40	/	/
		12	0	19.97	1.19	21.16	/	/
			6	20.25	1.19	21.44	/	/
			13	20.13	1.19	21.32	/	/
		25	0	20.09	1.19	21.28	/	/

	2310	1	0	20.85	1.19	22.04	/	/
			13	21.15	1.19	22.34	/	/
			24	20.30	1.19	21.49	/	/
		12	0	20.16	1.19	21.35	/	/
			6	20.32	1.19	21.51	/	/
			13	20.10	1.19	21.29	/	/
		25	0	20.31	1.19	21.50	/	/
	2312.5	1	0	20.98	1.19	22.17	/	/
			13	20.84	1.19	22.03	/	/
			24	20.55	1.19	21.74	/	/
		12	0	20.21	1.19	21.40	/	/
			6	20.14	1.19	21.33	/	/
			13	20.13	1.19	21.32	/	/
		25	0	20.37	1.19	21.56	/	/
	Note1: EIRP=Conducted Power+Antenna Gain							

1.1.2 B30_5MHz_EIRP/5MHz

Band: 30 / Bandwidth: 5MHz / NTNV								
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	22.56	1.19	23.75	<=23.98	Pass
			13	22.42	1.19	23.61	<=23.98	Pass
			24	22.58	1.19	23.77	<=23.98	Pass
		12	0	21.53	1.19	22.72	<=23.98	Pass
			6	21.38	1.19	22.57	<=23.98	Pass
			13	21.12	1.19	22.31	<=23.98	Pass
		25	0	21.44	1.19	22.63	<=23.98	Pass
	2310	1	0	22.56	1.19	23.75	<=23.98	Pass
			13	22.54	1.19	23.73	<=23.98	Pass
			24	22.50	1.19	23.69	<=23.98	Pass
		12	0	21.45	1.19	22.64	<=23.98	Pass
			6	21.52	1.19	22.71	<=23.98	Pass
			13	21.20	1.19	22.39	<=23.98	Pass
		25	0	21.42	1.19	22.61	<=23.98	Pass
	2312.5	1	0	22.32	1.19	23.51	<=23.98	Pass
			13	22.58	1.19	23.77	<=23.98	Pass
			24	22.38	1.19	23.57	<=23.98	Pass
		12	0	21.43	1.19	22.62	<=23.98	Pass
			6	21.37	1.19	22.56	<=23.98	Pass
			13	21.30	1.19	22.49	<=23.98	Pass
		25	0	21.34	1.19	22.53	<=23.98	Pass
16QAM	2307.5	1	0	21.37	1.19	22.56	<=23.98	Pass
			13	21.08	1.19	22.27	<=23.98	Pass
			24	21.12	1.19	22.31	<=23.98	Pass
		12	0	20.33	1.19	21.52	<=23.98	Pass
			6	20.34	1.19	21.53	<=23.98	Pass
			13	20.29	1.19	21.48	<=23.98	Pass
		25	0	20.36	1.19	21.55	<=23.98	Pass
	2310	1	0	21.41	1.19	22.60	<=23.98	Pass
			13	21.32	1.19	22.51	<=23.98	Pass
			24	20.86	1.19	22.05	<=23.98	Pass
		12	0	20.40	1.19	21.59	<=23.98	Pass
			6	20.50	1.19	21.69	<=23.98	Pass
			13	20.29	1.19	21.48	<=23.98	Pass
		25	0	20.55	1.19	21.74	<=23.98	Pass
	2312.5	1	0	21.26	1.19	22.45	<=23.98	Pass

64QAM	2307.5	12	13	21.22	1.19	22.41	<=23.98	Pass
			24	20.88	1.19	22.07	<=23.98	Pass
			0	20.37	1.19	21.56	<=23.98	Pass
			6	20.55	1.19	21.74	<=23.98	Pass
			13	20.27	1.19	21.46	<=23.98	Pass
		25	0	20.33	1.19	21.52	<=23.98	Pass
		1	0	20.78	1.19	21.97	<=23.98	Pass
			13	21.24	1.19	22.43	<=23.98	Pass
			24	20.31	1.19	21.50	<=23.98	Pass
			0	20.24	1.19	21.43	<=23.98	Pass
			6	20.47	1.19	21.66	<=23.98	Pass
			13	20.38	1.19	21.57	<=23.98	Pass
	2310	25	0	20.40	1.19	21.59	<=23.98	Pass
		1	0	20.94	1.19	22.13	<=23.98	Pass
			13	21.20	1.19	22.39	<=23.98	Pass
			24	20.31	1.19	21.50	<=23.98	Pass
			0	20.36	1.19	21.55	<=23.98	Pass
			6	20.44	1.19	21.63	<=23.98	Pass
			13	20.17	1.19	21.36	<=23.98	Pass
		25	0	20.45	1.19	21.64	<=23.98	Pass
	2312.5	1	0	20.82	1.19	22.01	<=23.98	Pass
			13	21.06	1.19	22.25	<=23.98	Pass
			24	20.29	1.19	21.48	<=23.98	Pass
			0	20.36	1.19	21.55	<=23.98	Pass
			6	20.22	1.19	21.41	<=23.98	Pass
		12	13	20.10	1.19	21.29	<=23.98	Pass
			0	20.29	1.19	21.48	<=23.98	Pass
			0	20.29	1.19	21.48	<=23.98	Pass

Note1: EIRP/10MHz=Conducted Power+Antenna Gain

1.1.3 B30_10MHz_EIRP

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.45	1.19	23.64	/	/
			25	22.20	1.19	23.39	/	/
			49	22.27	1.19	23.46	/	/
		25	0	21.20	1.19	22.39	/	/
			13	21.38	1.19	22.57	/	/
			25	20.98	1.19	22.17	/	/
		50	0	21.27	1.19	22.46	/	/
16QAM	2310	1	0	21.30	1.19	22.49	/	/
			25	20.93	1.19	22.12	/	/
			49	21.20	1.19	22.39	/	/
		25	0	20.25	1.19	21.44	/	/
			13	20.40	1.19	21.59	/	/
			25	20.28	1.19	21.47	/	/
		50	0	20.38	1.19	21.57	/	/
64QAM	2310	1	0	21.09	1.19	22.28	/	/
			25	21.37	1.19	22.56	/	/
			49	20.77	1.19	21.96	/	/
		25	0	20.40	1.19	21.59	/	/
			13	20.54	1.19	21.73	/	/
			25	20.39	1.19	21.58	/	/
		50	0	20.33	1.19	21.52	/	/

Note1: EIRP=Conducted Power+Antenna Gain

1.1.4 B30_10MHz_EIRP/5MHz

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.46	1.19	23.65	<=23.98	Pass
			25	22.51	1.19	23.70	<=23.98	Pass
			49	22.24	1.19	23.43	<=23.98	Pass
		25	0	21.46	1.19	22.65	<=23.98	Pass
			13	21.53	1.19	22.72	<=23.98	Pass
			25	21.11	1.19	22.30	<=23.98	Pass
		50	0	21.37	1.19	22.56	<=23.98	Pass
		16QAM	2310	1	0	21.16	1.19	22.35
25	21.15				1.19	22.34	<=23.98	Pass
49	21.17				1.19	22.36	<=23.98	Pass
25	0			20.50	1.19	21.69	<=23.98	Pass
	13			20.39	1.19	21.58	<=23.98	Pass
	25			20.32	1.19	21.51	<=23.98	Pass
50	0			20.43	1.19	21.62	<=23.98	Pass
64QAM	2310			1	0	20.99	1.19	22.18
		25	21.42		1.19	22.61	<=23.98	Pass
		49	20.30		1.19	21.49	<=23.98	Pass
		25	0	20.55	1.19	21.74	<=23.98	Pass
			13	20.45	1.19	21.64	<=23.98	Pass
			25	20.29	1.19	21.48	<=23.98	Pass
		50	0	20.38	1.19	21.57	<=23.98	Pass
		Note1: EIRP/10MHz=Conducted Power+Antenna Gain						

2. Frequency Stability

2.1 Test Result

2.1.1 B30_10MHz

Band: 30 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	2310	50	0	20	LV	-2.800	-0.0012	-2.5 to 2.5	Pass
					NV	-4.100	-0.0018	-2.5 to 2.5	Pass
					HV	-2.000	-0.0009	-2.5 to 2.5	Pass
				-30	NV	-3.300	-0.0014	-2.5 to 2.5	Pass
				-20	NV	-2.600	-0.0011	-2.5 to 2.5	Pass
				-10	NV	-3.000	-0.0013	-2.5 to 2.5	Pass
				0	NV	-4.400	-0.0019	-2.5 to 2.5	Pass
				10	NV	-4.800	-0.0021	-2.5 to 2.5	Pass
				30	NV	-3.200	-0.0014	-2.5 to 2.5	Pass
				40	NV	-3.200	-0.0014	-2.5 to 2.5	Pass
				50	NV	-7.100	-0.0031	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band30_OBW

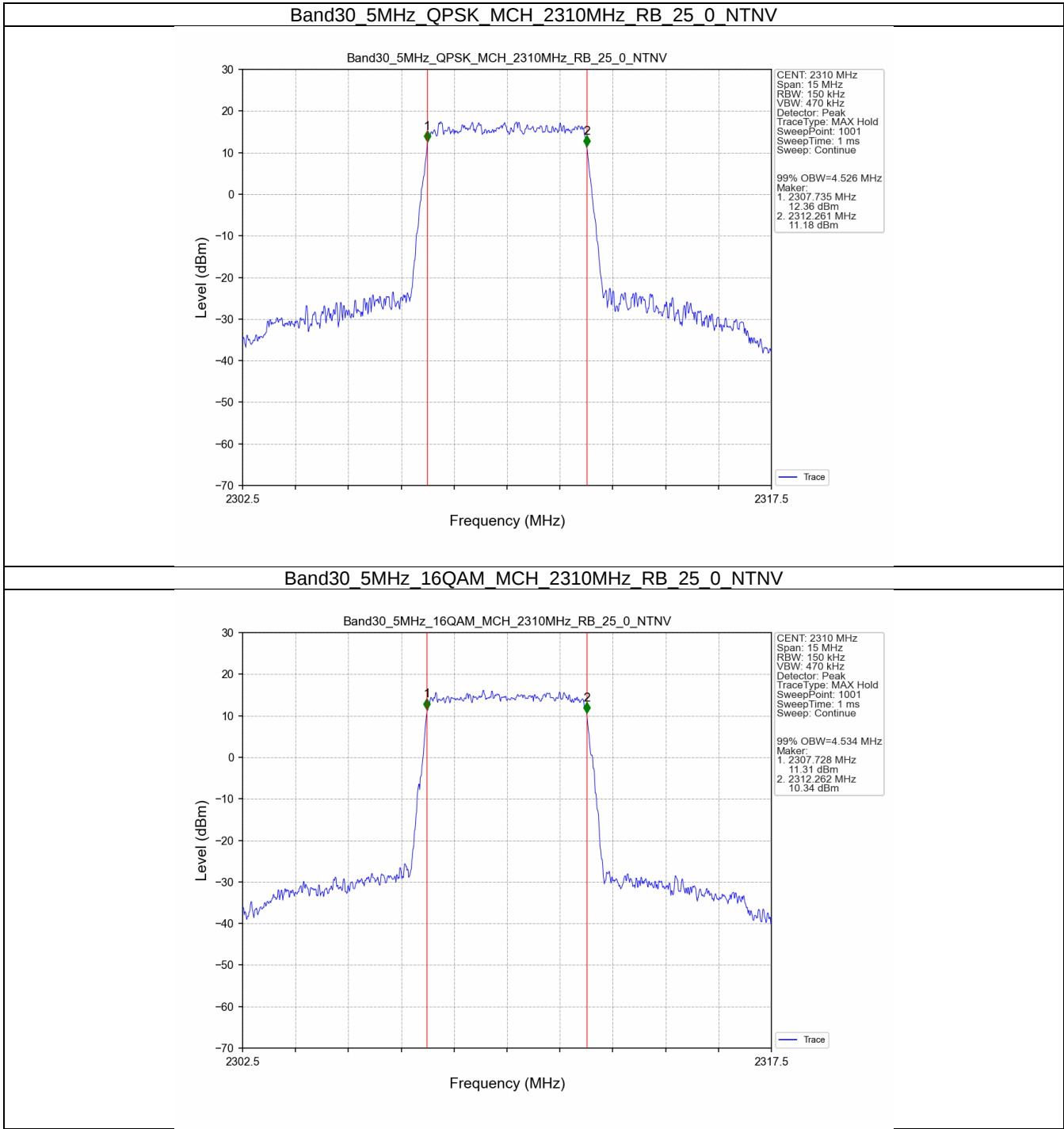
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2310	25	0	4.526	/	Pass
	16QAM	2310	25	0	4.534	/	Pass
10	QPSK	2310	50	0	9.066	/	Pass
	16QAM	2310	50	0	9.005	/	Pass

3.1.2 Band30_XDB

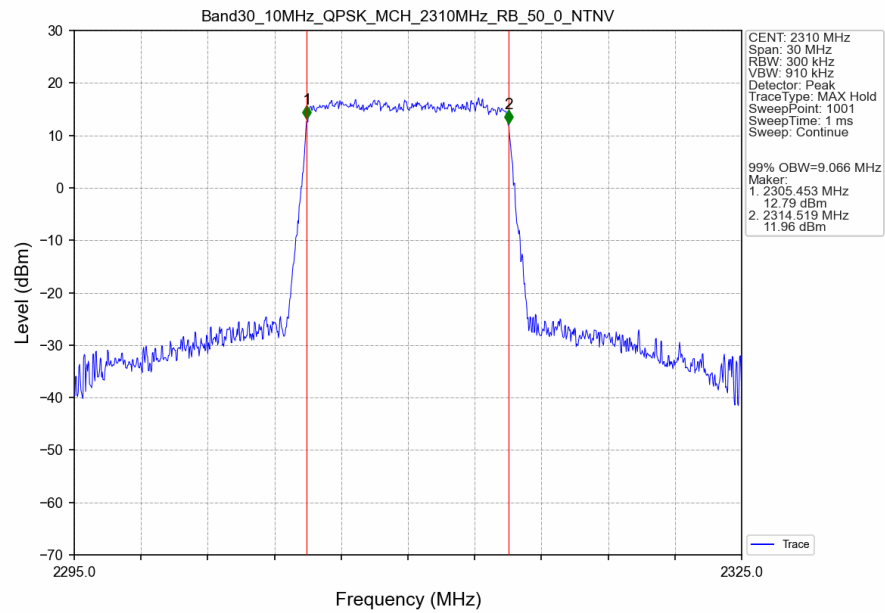
Band: 30 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	2310	25	0	5.067	/	Pass
	16QAM	2310	25	0	5.085	/	Pass
10	QPSK	2310	50	0	10.001	/	Pass
	16QAM	2310	50	0	9.994	/	Pass

3.2 Test Graph

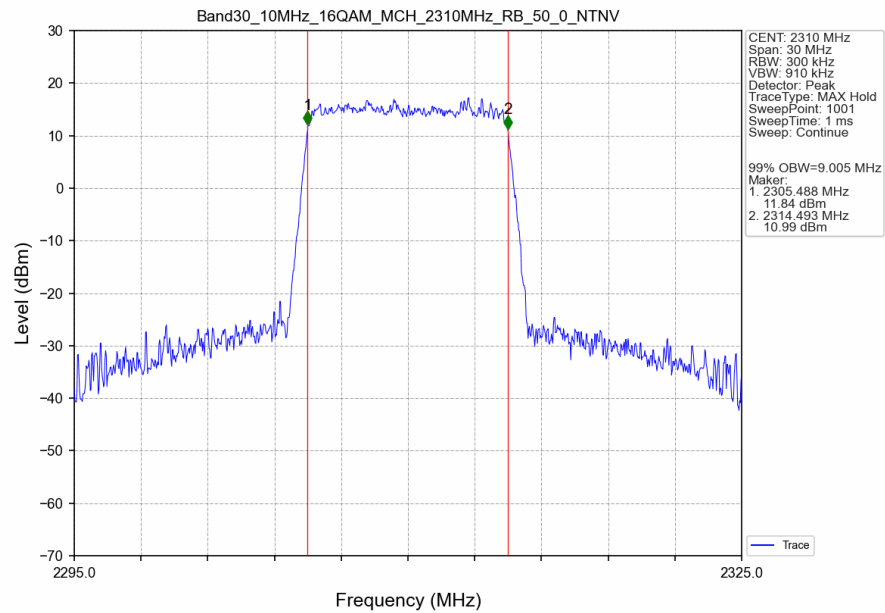
3.2.1 Band30_OBW



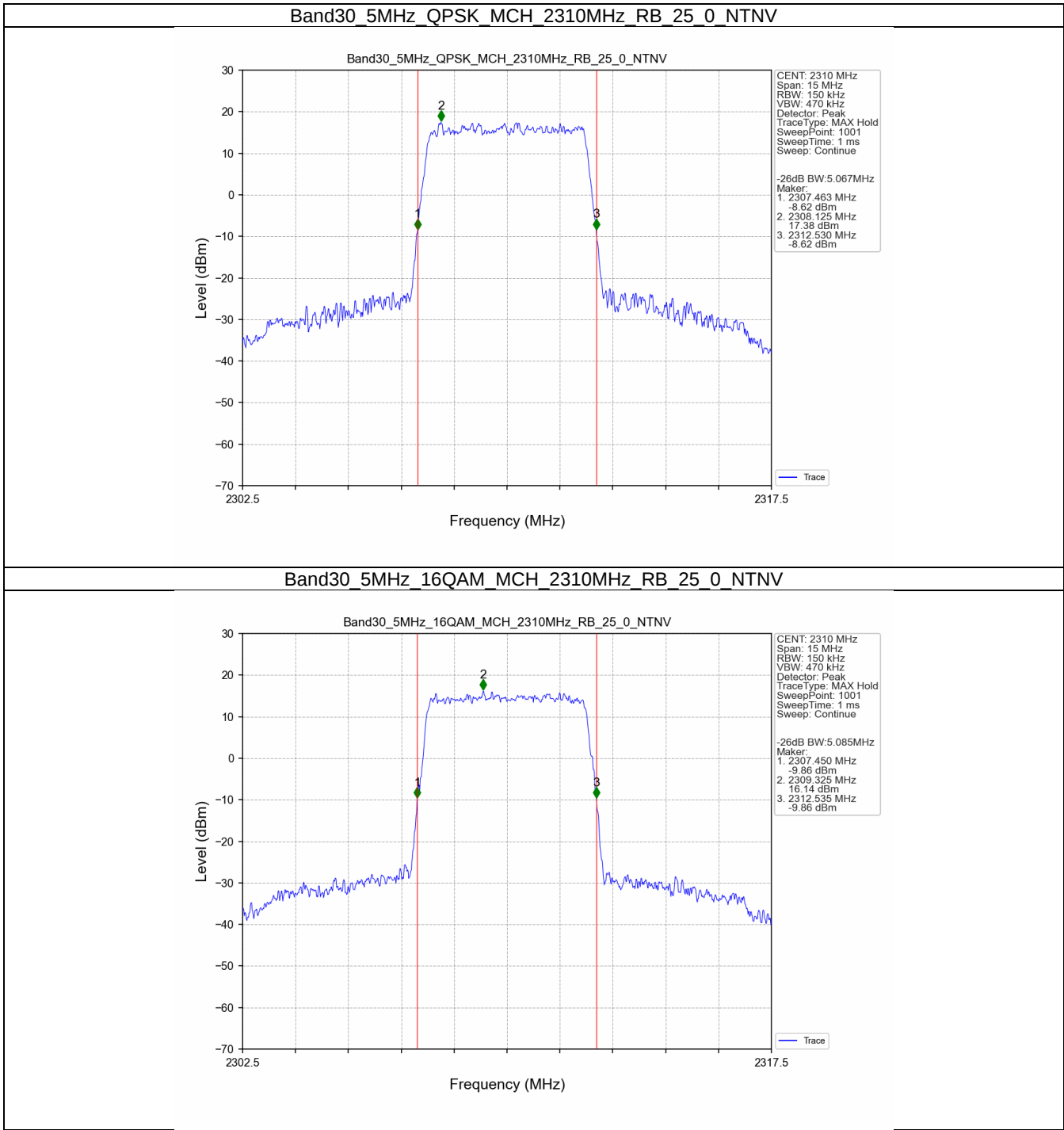
Band30 10MHz QPSK MCH 2310MHz RB 50 0 NTV



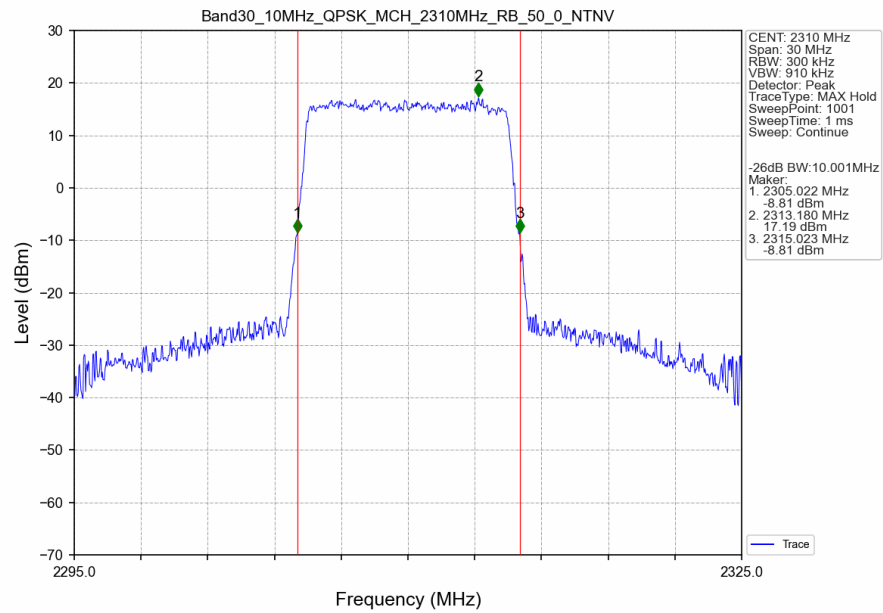
Band30 10MHz 16QAM MCH 2310MHz RB 50 0 NTV



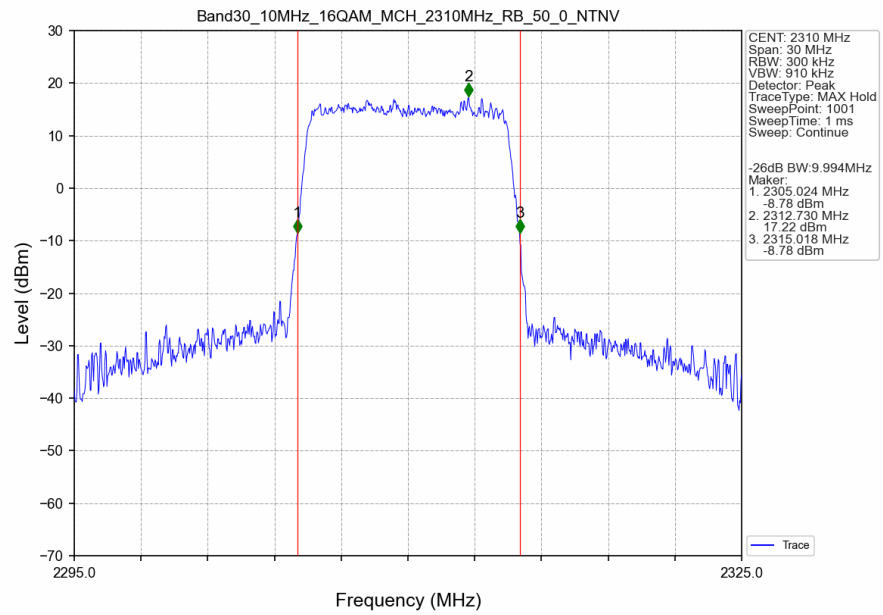
3.2.2 Band30_XDB



Band30 10MHz QPSK MCH 2310MHz RB 50 0 NTN



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



4. Peak-Average Ratio

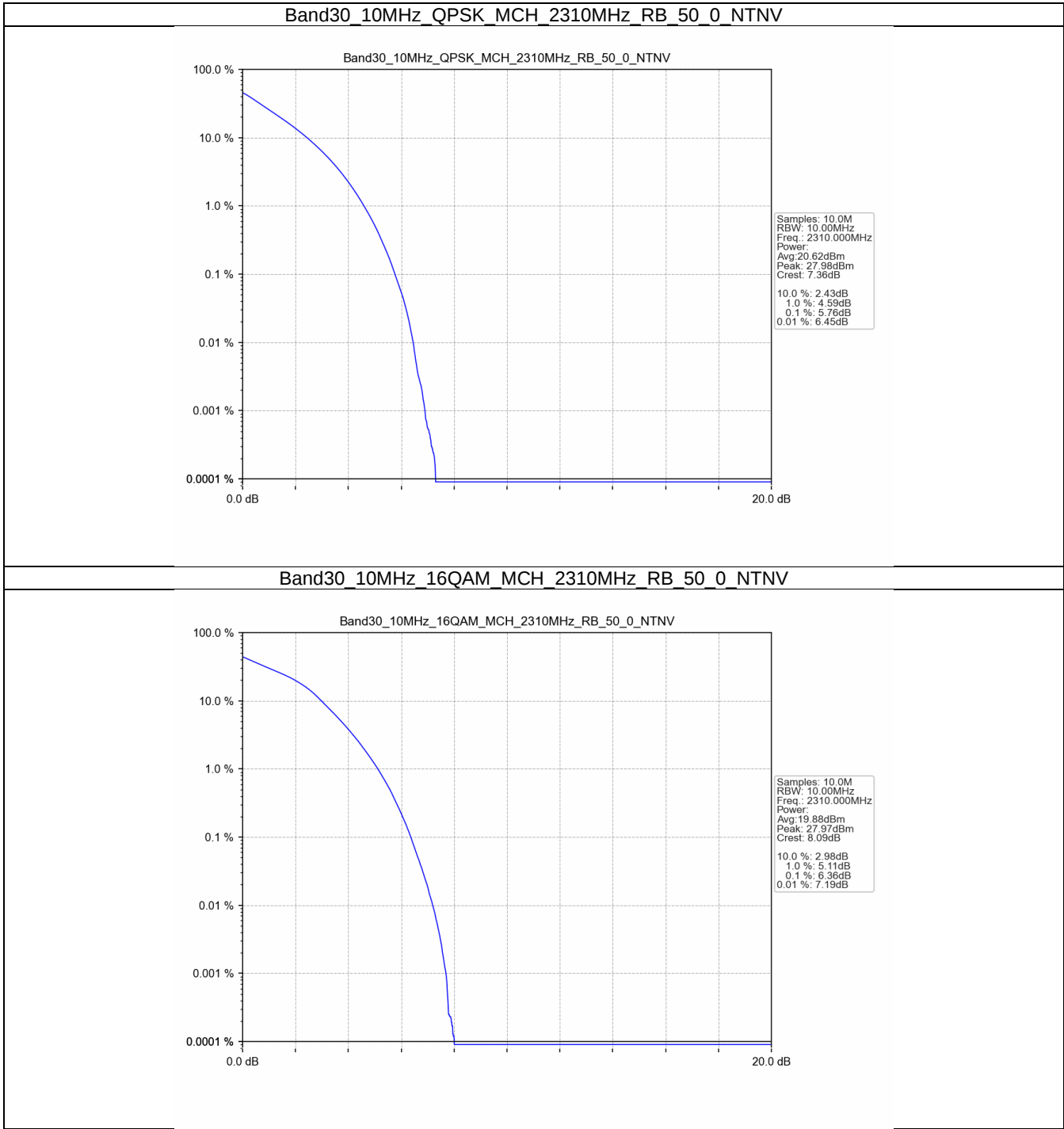
4.1 Test Result

4.1.1 B30_10MHz

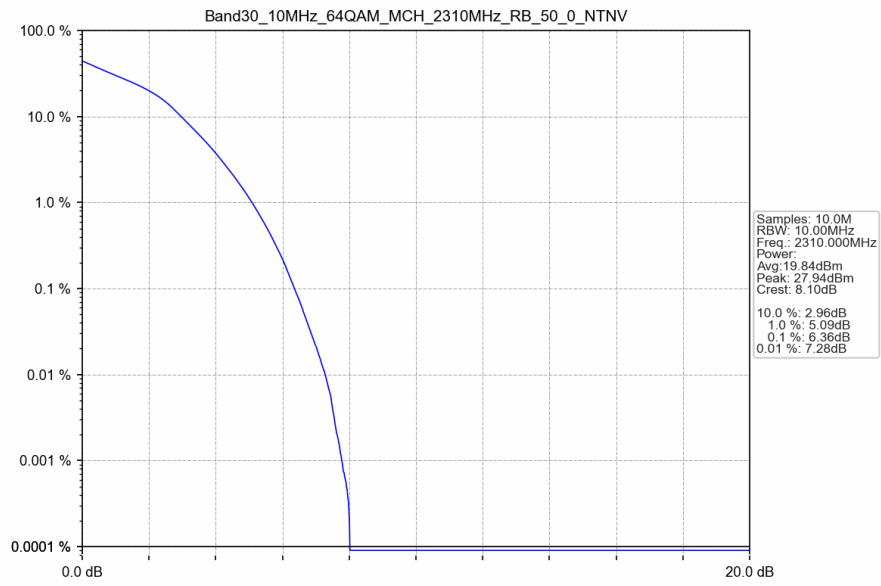
Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.76	<=13	Pass
16QAM	2310	50	0	6.36	<=13	Pass
64QAM	2310	50	0	6.36	<=13	Pass

4.2 Test Graph

4.2.1 B30_10MHz



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



5. Spurious Emission

5.1 Test Result

5.1.1 B30_5MHz

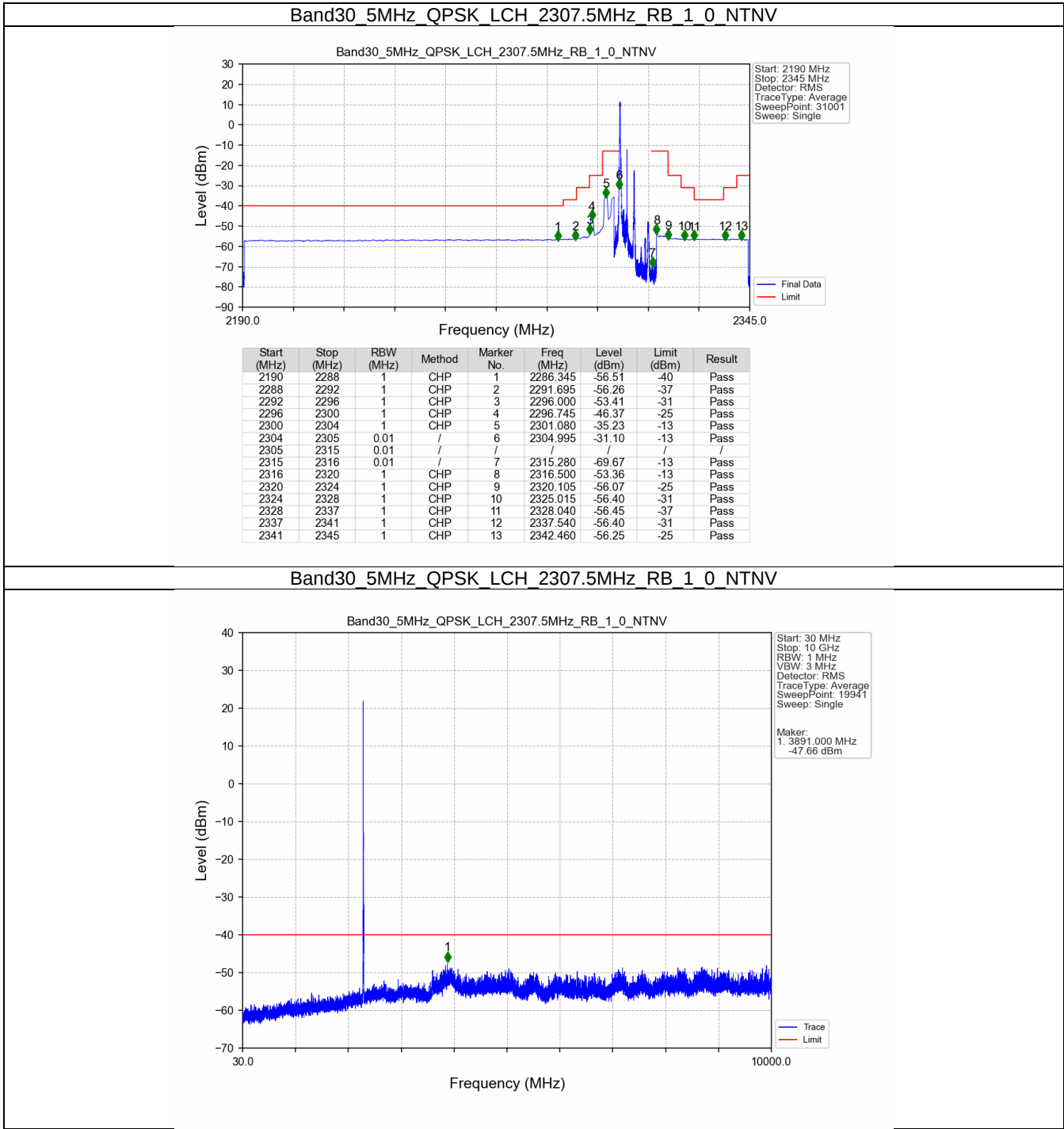
Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To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

5.1.2 B30_10MHz

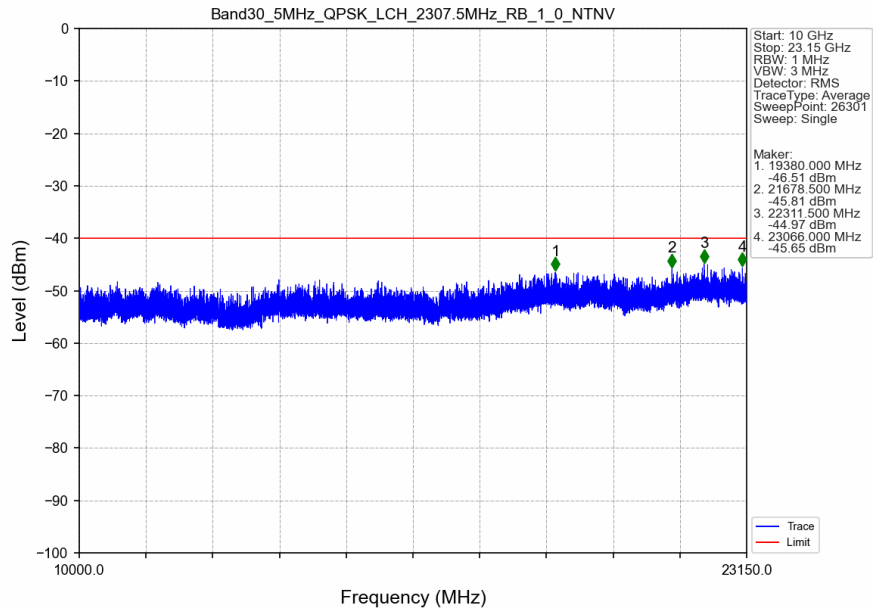
Band: 30 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

5.2 Test Graph

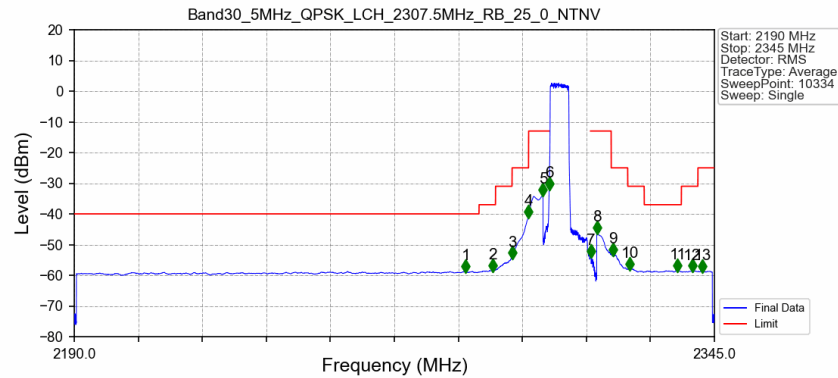
5.2.1 B30_5MHz



Band30 5MHz QPSK LCH 2307.5MHz RB 1 0 NTV

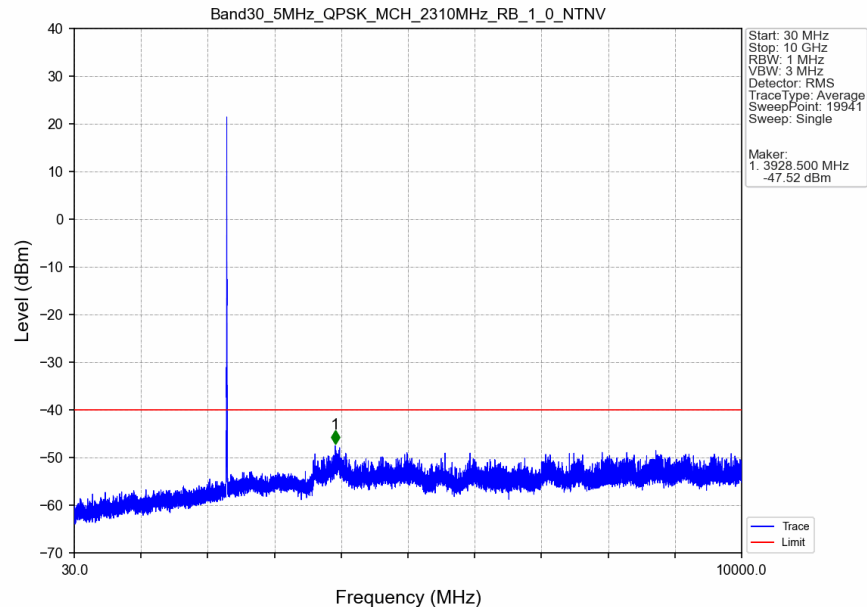


Band30 5MHz QPSK LCH 2307.5MHz RB 25 0 NTV

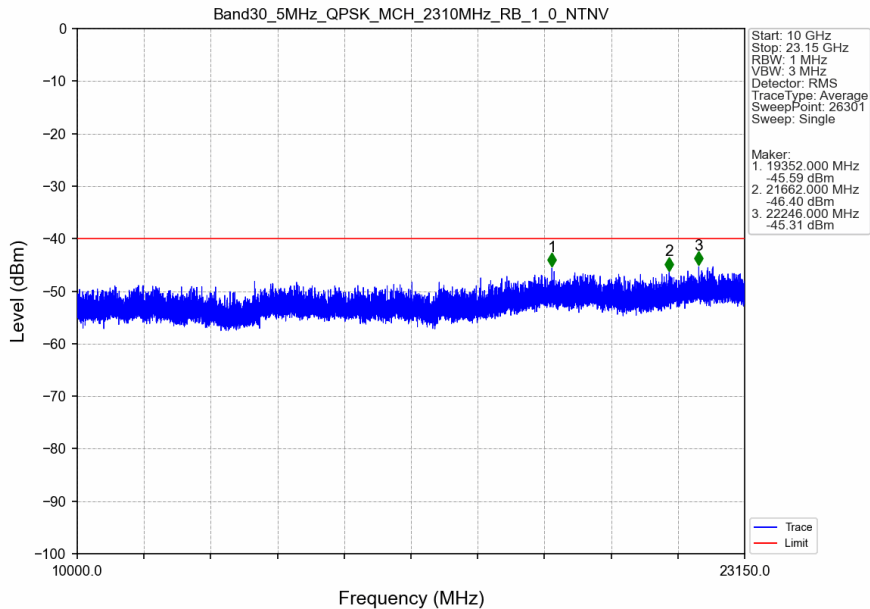


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2284.803	-58.66	-40	Pass
2288	2292	1	CHP	2	2291.373	-58.27	-37	Pass
2292	2296	1	CHP	3	2295.993	-54.26	-31	Pass
2296	2300	1	CHP	4	2299.999	-40.72	-25	Pass
2300	2304	1	CHP	5	2303.494	-33.65	-13	Pass
2304	2305	0.051	CHP	6	2304.994	-31.59	-13	Pass
2305	2315	0.051	CHP	/	/	/	/	/
2315	2316	0.051	CHP	7	2315.074	-53.67	-13	Pass
2316	2320	1	CHP	8	2316.514	-45.93	-13	Pass
2320	2324	1	CHP	9	2320.489	-53.20	-25	Pass
2324	2328	1	CHP	10	2324.539	-57.82	-31	Pass
2328	2337	1	CHP	11	2336.075	-58.39	-37	Pass
2337	2341	1	CHP	12	2339.600	-58.44	-31	Pass
2341	2345	1	CHP	13	2342.120	-58.63	-25	Pass

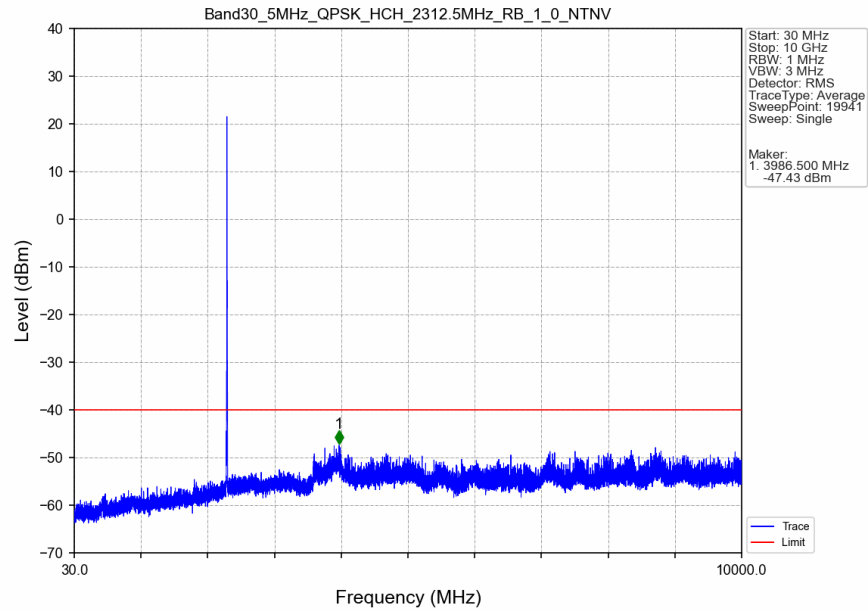
Band30 5MHz QPSK MCH 2310MHz RB 1 0 NTN



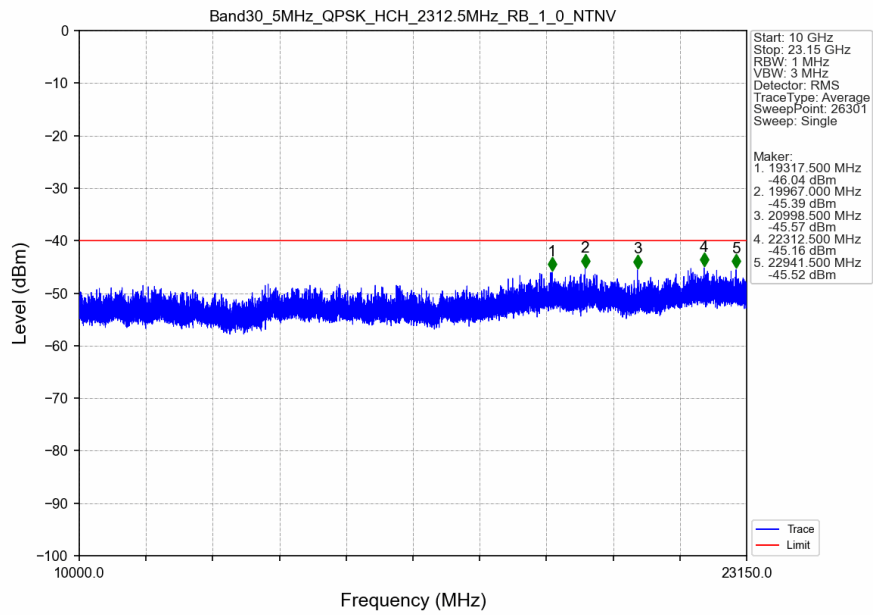
Band30 5MHz QPSK MCH 2310MHz RB 1 0 NTN



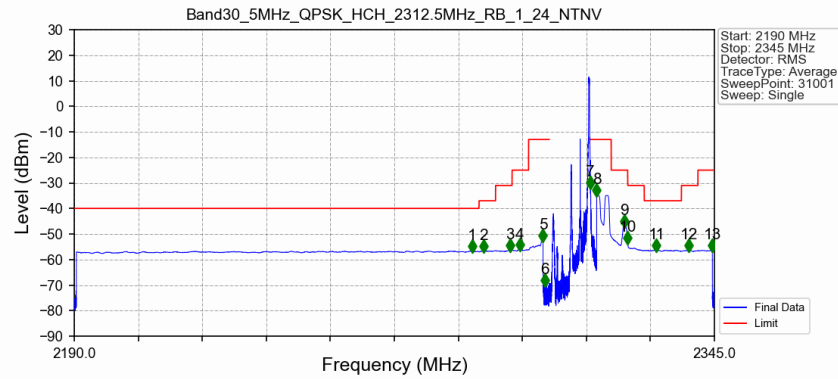
Band30 5MHz QPSK HCH 2312.5MHz RB 1 0 NTV



Band30 5MHz QPSK HCH 2312.5MHz RB 1 0 NTV

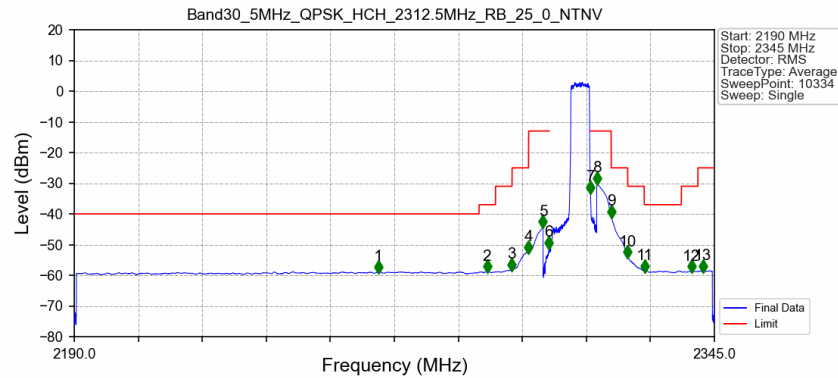


Band30 5MHz QPSK HCH 2312.5MHz RB 1 24 NTV



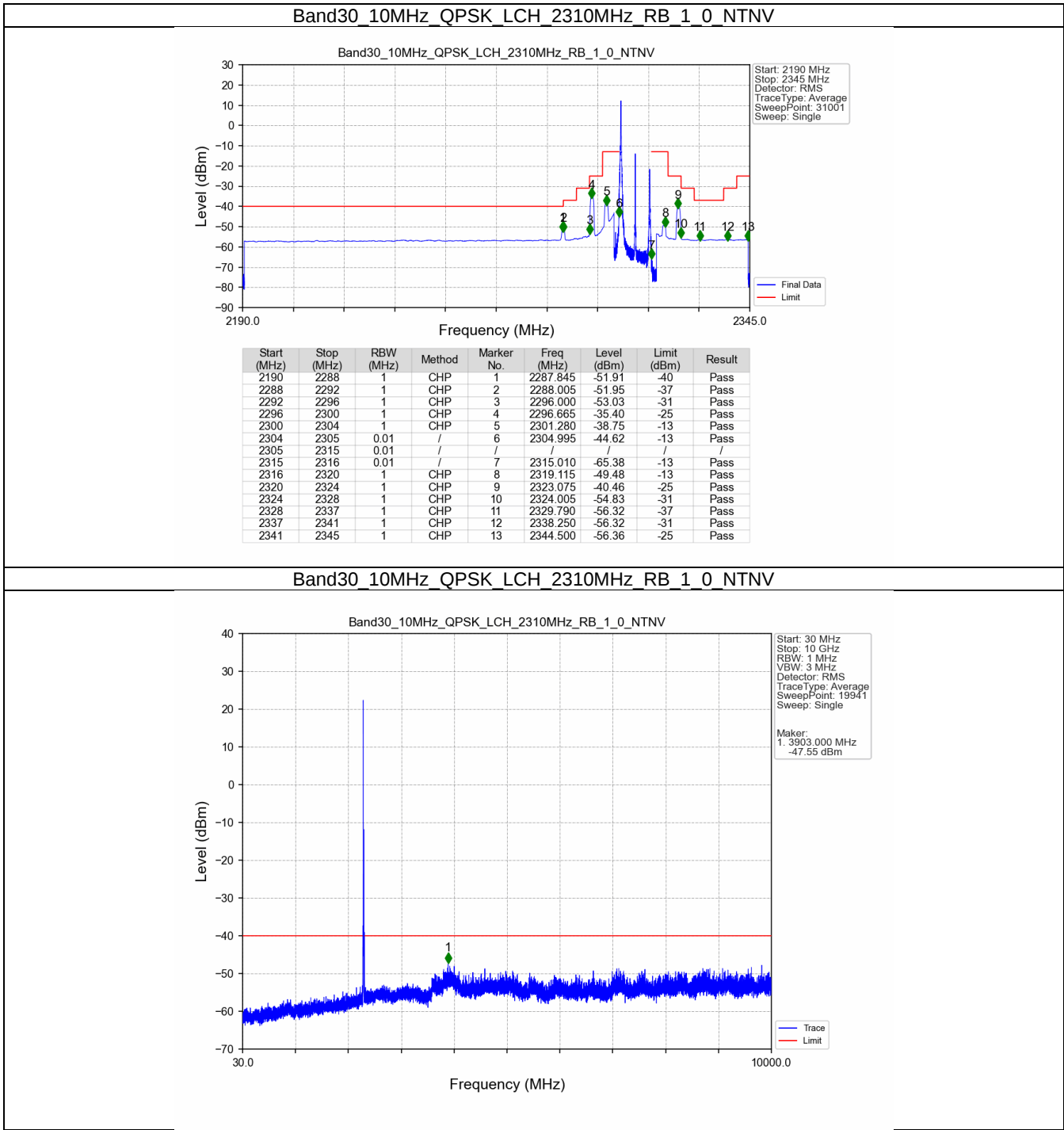
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2286.290	-56.68	-40	Pass
2288	2292	1	CHP	2	2289.160	-56.55	-37	Pass
2292	2296	1	CHP	3	2295.455	-56.39	-31	Pass
2296	2300	1	CHP	4	2297.870	-56.13	-25	Pass
2300	2304	1	CHP	5	2303.495	-52.53	-13	Pass
2304	2305	0.01	/	6	2304.050	-69.84	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.005	-31.64	-13	Pass
2316	2320	1	CHP	8	2316.500	-34.59	-13	Pass
2320	2324	1	CHP	9	2323.190	-46.87	-25	Pass
2324	2328	1	CHP	10	2324.005	-53.39	-31	Pass
2328	2337	1	CHP	11	2330.940	-56.26	-37	Pass
2337	2341	1	CHP	12	2338.815	-56.40	-31	Pass
2341	2345	1	CHP	13	2344.475	-56.28	-25	Pass

Band30 5MHz QPSK HCH 2312.5MHz RB 25 0 NTV

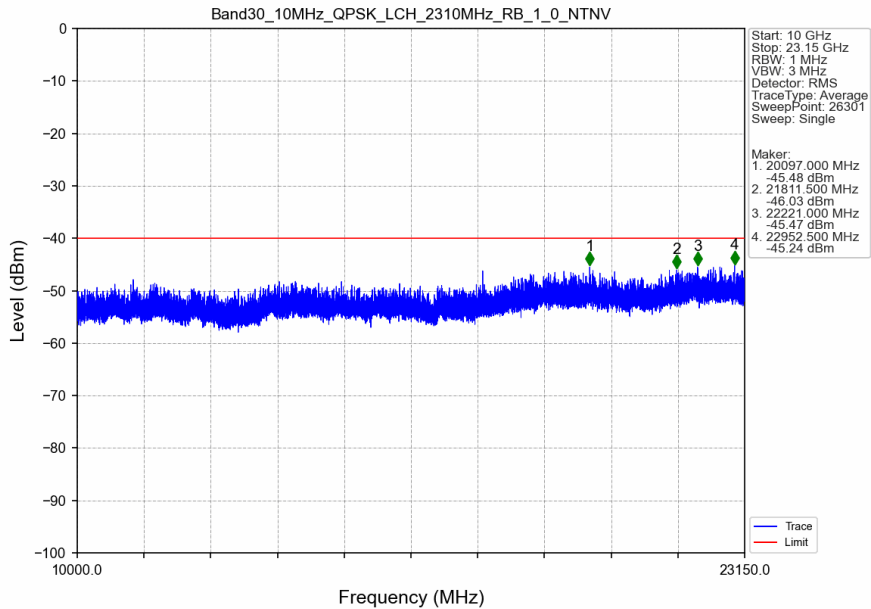


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2263.562	-58.76	-40	Pass
2288	2292	1	CHP	2	2289.948	-58.73	-37	Pass
2292	2296	1	CHP	3	2295.978	-58.02	-31	Pass
2296	2300	1	CHP	4	2299.984	-52.35	-25	Pass
2300	2304	1	CHP	5	2303.494	-44.13	-13	Pass
2304	2305	0.051	CHP	6	2304.949	-50.93	-13	Pass
2305	2315	0.051	CHP	/	/	/	/	/
2315	2316	0.051	CHP	7	2315.014	-32.99	-13	Pass
2316	2320	1	CHP	8	2316.514	-29.97	-13	Pass
2320	2324	1	CHP	9	2320.009	-40.88	-25	Pass
2324	2328	1	CHP	10	2324.014	-54.01	-31	Pass
2328	2337	1	CHP	11	2328.124	-58.51	-37	Pass
2337	2341	1	CHP	12	2339.465	-58.72	-31	Pass
2341	2345	1	CHP	13	2342.180	-58.53	-25	Pass

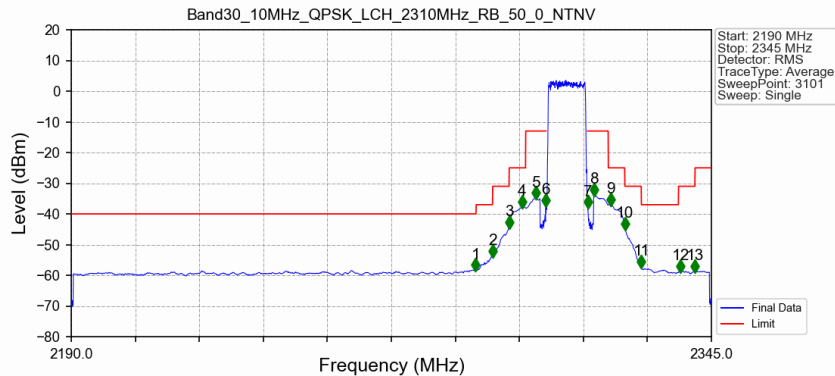
5.2.2 B30_10MHz



Band30 10MHz QPSK LCH 2310MHz RB 1 0 NTN

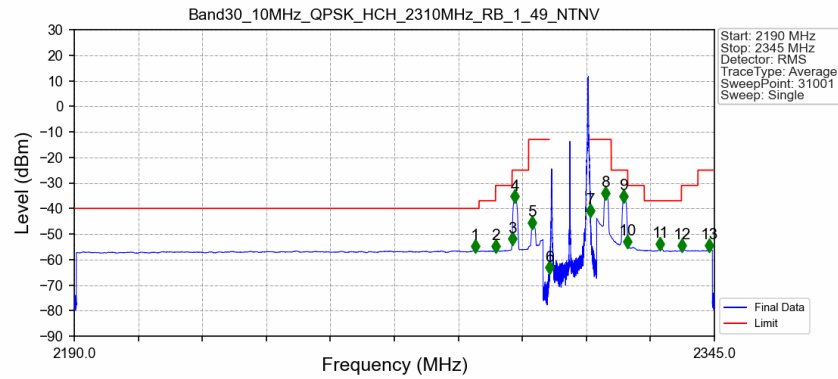


Band30 10MHz QPSK LCH 2310MHz RB 50 0 NTN



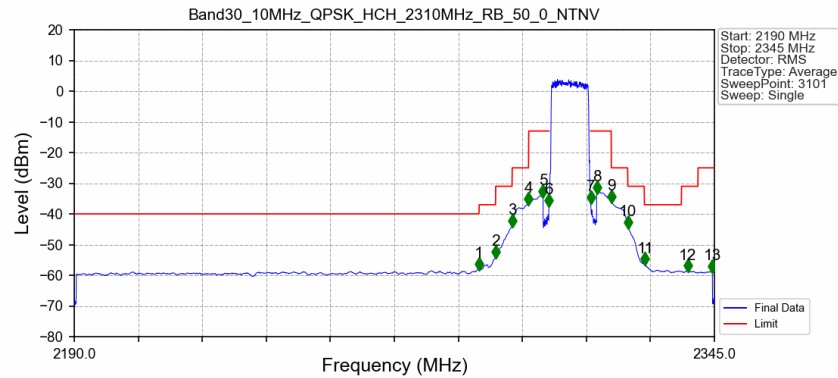
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2288	1	CHP	1	2287.850	-58.18	-40	Pass
2288	2292	1	CHP	2	2292.000	-53.71	-37	Pass
2292	2296	1	CHP	3	2296.000	-44.33	-31	Pass
2296	2300	1	CHP	4	2299.150	-37.63	-25	Pass
2300	2304	1	CHP	5	2302.550	-34.76	-13	Pass
2304	2305	0.1	/	6	2304.900	-37.19	-13	Pass
2305	2315	0.1	/	/	/	/	/	/
2315	2316	0.1	/	7	2315.100	-37.71	-13	Pass
2316	2320	1	CHP	8	2316.650	-33.71	-13	Pass
2320	2324	1	CHP	9	2320.650	-36.92	-25	Pass
2324	2328	1	CHP	10	2324.050	-44.76	-31	Pass
2328	2337	1	CHP	11	2328.050	-57.06	-37	Pass
2337	2341	1	CHP	12	2337.500	-58.54	-31	Pass
2341	2345	1	CHP	13	2341.050	-58.66	-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	2287.075	-56.61	-40	Pass
2288	2292	1	CHP	2	2292.000	-56.56	-37	Pass
2292	2296	1	CHP	3	2296.000	-53.82	-31	Pass
2296	2300	1	CHP	4	2296.685	-37.15	-25	Pass
2300	2304	1	CHP	5	2300.875	-47.42	-13	Pass
2304	2305	0.01	/	6	2304.995	-65.07	-13	Pass
2305	2315	0.01	/	/	/	/	/	/
2315	2316	0.01	/	7	2315.015	-42.58	-13	Pass
2316	2320	1	CHP	8	2318.540	-35.77	-13	Pass
2320	2324	1	CHP	9	2322.990	-37.05	-25	Pass
2324	2328	1	CHP	10	2324.005	-54.79	-31	Pass
2328	2337	1	CHP	11	2331.845	-55.73	-37	Pass
2337	2341	1	CHP	12	2337.200	-56.21	-31	Pass
2341	2345	1	CHP	13	2343.700	-56.31	-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	2288.000	-57.93	-40	Pass
2288	2292	1	CHP	2	2292.000	-53.89	-37	Pass
2292	2296	1	CHP	3	2296.000	-43.77	-31	Pass
2296	2300	1	CHP	4	2300.000	-36.66	-25	Pass
2300	2304	1	CHP	5	2303.500	-34.08	-13	Pass
2304	2305	0.1	/	6	2304.950	-37.17	-13	Pass
2305	2315	0.1	/	/	/	/	/	/
2315	2316	0.1	/	7	2315.050	-36.04	-13	Pass
2316	2320	1	CHP	8	2316.650	-32.91	-13	Pass
2320	2324	1	CHP	9	2320.050	-35.93	-25	Pass
2324	2328	1	CHP	10	2324.050	-44.29	-31	Pass
2328	2337	1	CHP	11	2328.200	-56.22	-37	Pass
2337	2341	1	CHP	12	2338.550	-58.49	-31	Pass
2341	2345	1	CHP	13	2344.500	-58.64	-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
6914.763	-47.27	-40	-7.27	-53.38	4.91	11.02	Horizontal	Pass
9232.187	-52.42	-40	-12.42	-60.4	5.24	13.22	Horizontal	Pass
13837.02	-49.35	-40	-9.35	-57.51	6.23	14.39	Horizontal	Pass
6914.763	-45.27	-40	-5.27	-51.38	4.91	11.02	Vertical	Pass
9232.187	-42.48	-40	-2.48	-50.46	5.24	13.22	Vertical	Pass
13837.02	-42.29	-40	-2.29	-50.45	6.23	14.39	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
6914.763	-48.89	-40	-8.89	-55.0	4.91	11.02	Horizontal	Pass
9232.187	-52.21	-40	-12.21	-60.19	5.24	13.22	Horizontal	Pass
13837.02	-49.12	-40	-9.12	-57.28	6.23	14.39	Horizontal	Pass
6914.763	-46.03	-40	-6.03	-52.14	4.91	11.02	Vertical	Pass
9232.187	-43.13	-40	-3.13	-51.11	5.24	13.22	Vertical	Pass
13837.02	-42.7	-40	-2.7	-50.86	6.23	14.39	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
6914.763	-50.79	-40	-10.79	-56.9	4.91	11.02	Horizontal	Pass
9232.187	-52.27	-40	-12.27	-60.25	5.24	13.22	Horizontal	Pass
13837.02	-49.75	-40	-9.75	-57.91	6.23	14.39	Horizontal	Pass
6914.763	-46.08	-40	-6.08	-52.19	4.91	11.02	Vertical	Pass
9232.187	-42.68	-40	-2.68	-50.66	5.24	13.22	Vertical	Pass
13837.02	-43.6	-40	-3.6	-51.76	6.23	14.39	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
6934.778	-49.77	-40	-9.77	-55.91	4.91	11.05	Horizontal	Pass
9232.187	-50.84	-40	-10.84	-58.82	5.24	13.22	Horizontal	Pass
13877.08	-50.67	-40	-10.67	-58.83	6.25	14.41	Horizontal	Pass
6934.778	-47.04	-40	-7.04	-53.18	4.91	11.05	Vertical	Pass
9232.187	-43.53	-40	-3.53	-51.51	5.24	13.22	Vertical	Pass
13877.08	-44.62	-40	-4.62	-52.78	6.25	14.41	Vertical	Pass

Note: External Antenna is the worst case, only the worst case test data were recorded in this report.

7. Effective (Isotropic) Radiated Power Output Data (Internal Antenna)

7.1 Test Result

7.1.1 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	22.33	0.30	22.63	/	Pass
			13	22.36	0.30	22.66	/	Pass
			24	22.33	0.30	22.63	/	Pass
		12	0	21.04	0.30	21.34	/	Pass
			6	21.15	0.30	21.45	/	Pass
			13	20.98	0.30	21.28	/	Pass
		25	0	21.13	0.30	21.43	/	Pass
	2310	1	0	22.42	0.30	22.72	/	Pass
			13	22.43	0.30	22.73	/	Pass
			24	22.45	0.30	22.75	/	Pass
		12	0	21.40	0.30	21.70	/	Pass
			6	21.30	0.30	21.60	/	Pass
			13	21.20	0.30	21.50	/	Pass
		25	0	21.25	0.30	21.55	/	Pass
	2312.5	1	0	22.29	0.30	22.59	/	Pass
			13	22.58	0.30	22.88	/	Pass
			24	22.37	0.30	22.67	/	Pass
		12	0	21.28	0.30	21.58	/	Pass
			6	21.48	0.30	21.78	/	Pass
			13	21.36	0.30	21.66	/	Pass
		25	0	21.46	0.30	21.76	/	Pass
16QAM	2307.5	1	0	20.87	0.30	21.17	/	Pass
			13	20.94	0.30	21.24	/	Pass
			24	20.76	0.30	21.06	/	Pass
		12	0	20.12	0.30	20.42	/	Pass
			6	20.15	0.30	20.45	/	Pass
			13	20.19	0.30	20.49	/	Pass
		25	0	20.13	0.30	20.43	/	Pass
	2310	1	0	21.20	0.30	21.50	/	Pass
			13	21.22	0.30	21.52	/	Pass
			24	20.84	0.30	21.14	/	Pass
		12	0	20.30	0.30	20.60	/	Pass
			6	20.45	0.30	20.75	/	Pass
			13	20.20	0.30	20.50	/	Pass
		25	0	20.24	0.30	20.54	/	Pass
	2312.5	1	0	21.35	0.30	21.65	/	Pass
			13	21.32	0.30	21.62	/	Pass
			24	21.10	0.30	21.40	/	Pass
		12	0	20.35	0.30	20.65	/	Pass
			6	20.61	0.30	20.91	/	Pass
			13	20.41	0.30	20.71	/	Pass
		25	0	20.31	0.30	20.61	/	Pass
64QAM	2307.5	1	0	20.57	0.30	20.87	/	Pass
			13	20.90	0.30	21.20	/	Pass
			24	20.21	0.30	20.51	/	Pass
		12	0	19.97	0.30	20.27	/	Pass

		25	6	20.25	0.30	20.55	/	Pass
			13	20.13	0.30	20.43	/	Pass
			0	20.09	0.30	20.39	/	Pass
	2310	1	0	20.85	0.30	21.15	/	Pass
			13	21.15	0.30	21.45	/	Pass
			24	20.30	0.30	20.60	/	Pass
		12	0	20.16	0.30	20.46	/	Pass
			6	20.32	0.30	20.62	/	Pass
			13	20.10	0.30	20.40	/	Pass
		25	0	20.31	0.30	20.61	/	Pass
	2312.5	1	0	20.98	0.30	21.28	/	Pass
			13	20.84	0.30	21.14	/	Pass
			24	20.55	0.30	20.85	/	Pass
		12	0	20.21	0.30	20.51	/	Pass
			6	20.14	0.30	20.44	/	Pass
			13	20.13	0.30	20.43	/	Pass
		25	0	20.37	0.30	20.67	/	Pass

Note1: EIRP=Conducted Power+Antenna Gain

7.1.2 B30_5MHz_EIRP/5MHz

Band: 30 / Bandwidth: 5MHz / NTNV								
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	22.56	0.30	22.86	<=23.98	Pass
			13	22.42	0.30	22.72	<=23.98	Pass
			24	22.58	0.30	22.88	<=23.98	Pass
		12	0	21.53	0.30	21.83	<=23.98	Pass
			6	21.38	0.30	21.68	<=23.98	Pass
			13	21.12	0.30	21.42	<=23.98	Pass
		25	0	21.44	0.30	21.74	<=23.98	Pass
	2310	1	0	22.56	0.30	22.86	<=23.98	Pass
			13	22.54	0.30	22.84	<=23.98	Pass
			24	22.50	0.30	22.80	<=23.98	Pass
		12	0	21.45	0.30	21.75	<=23.98	Pass
			6	21.52	0.30	21.82	<=23.98	Pass
			13	21.20	0.30	21.50	<=23.98	Pass
		25	0	21.42	0.30	21.72	<=23.98	Pass
	2312.5	1	0	22.32	0.30	22.62	<=23.98	Pass
			13	22.58	0.30	22.88	<=23.98	Pass
			24	22.38	0.30	22.68	<=23.98	Pass
		12	0	21.43	0.30	21.73	<=23.98	Pass
			6	21.37	0.30	21.67	<=23.98	Pass
			13	21.30	0.30	21.60	<=23.98	Pass
		25	0	21.34	0.30	21.64	<=23.98	Pass
16QAM	2307.5	1	0	21.37	0.30	21.67	<=23.98	Pass
			13	21.08	0.30	21.38	<=23.98	Pass
			24	21.12	0.30	21.42	<=23.98	Pass
		12	0	20.33	0.30	20.63	<=23.98	Pass
			6	20.34	0.30	20.64	<=23.98	Pass
			13	20.29	0.30	20.59	<=23.98	Pass
		25	0	20.36	0.30	20.66	<=23.98	Pass
	2310	1	0	21.41	0.30	21.71	<=23.98	Pass
			13	21.32	0.30	21.62	<=23.98	Pass
			24	20.86	0.30	21.16	<=23.98	Pass
		12	0	20.40	0.30	20.70	<=23.98	Pass
			6	20.50	0.30	20.80	<=23.98	Pass

			13	20.29	0.30	20.59	<=23.98	Pass
		25	0	20.55	0.30	20.85	<=23.98	Pass
	2312.5	1	0	21.26	0.30	21.56	<=23.98	Pass
			13	21.22	0.30	21.52	<=23.98	Pass
			24	20.88	0.30	21.18	<=23.98	Pass
		12	0	20.37	0.30	20.67	<=23.98	Pass
			6	20.55	0.30	20.85	<=23.98	Pass
			13	20.27	0.30	20.57	<=23.98	Pass
		25	0	20.33	0.30	20.63	<=23.98	Pass
64QAM	2307.5	1	0	20.78	0.30	21.08	<=23.98	Pass
			13	21.24	0.30	21.54	<=23.98	Pass
			24	20.31	0.30	20.61	<=23.98	Pass
		12	0	20.24	0.30	20.54	<=23.98	Pass
			6	20.47	0.30	20.77	<=23.98	Pass
			13	20.38	0.30	20.68	<=23.98	Pass
		25	0	20.40	0.30	20.70	<=23.98	Pass
	2310	1	0	20.94	0.30	21.24	<=23.98	Pass
			13	21.20	0.30	21.50	<=23.98	Pass
			24	20.31	0.30	20.61	<=23.98	Pass
		12	0	20.36	0.30	20.66	<=23.98	Pass
			6	20.44	0.30	20.74	<=23.98	Pass
			13	20.17	0.30	20.47	<=23.98	Pass
		25	0	20.45	0.30	20.75	<=23.98	Pass
	2312.5	1	0	20.82	0.30	21.12	<=23.98	Pass
			13	21.06	0.30	21.36	<=23.98	Pass
			24	20.29	0.30	20.59	<=23.98	Pass
		12	0	20.36	0.30	20.66	<=23.98	Pass
			6	20.22	0.30	20.52	<=23.98	Pass
			13	20.10	0.30	20.40	<=23.98	Pass
		25	0	20.29	0.30	20.59	<=23.98	Pass
Note1: EIRP/10MHz=Conducted Power+Antenna Gain								

7.1.3 B30_10MHz_EIRP

Band: 30 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.45	0.30	22.75	/	Pass
			25	22.20	0.30	22.50	/	Pass
			49	22.27	0.30	22.57	/	Pass
		25	0	21.20	0.30	21.50	/	Pass
			13	21.38	0.30	21.68	/	Pass
			25	20.98	0.30	21.28	/	Pass
		50	0	21.27	0.30	21.57	/	Pass
16QAM	2310	1	0	21.30	0.30	21.60	/	Pass
			25	20.93	0.30	21.23	/	Pass
			49	21.20	0.30	21.50	/	Pass
		25	0	20.25	0.30	20.55	/	Pass
			13	20.40	0.30	20.70	/	Pass
			25	20.28	0.30	20.58	/	Pass
		50	0	20.38	0.30	20.68	/	Pass
64QAM	2310	1	0	21.09	0.30	21.39	/	Pass
			25	21.37	0.30	21.67	/	Pass
			49	20.77	0.30	21.07	/	Pass
		25	0	20.40	0.30	20.70	/	Pass
			13	20.54	0.30	20.84	/	Pass
			25	20.39	0.30	20.69	/	Pass

		50	0	20.33	0.30	20.63	/	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

7.1.4 B30 10MHz EIRP/5MHz

Band: 30 / Bandwidth: 10MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm/5MHz)	Gain (dBi)	EIRP/5MHz (dBm/5MHz)		Verdict
		Size	Offset			Result	Limit	
QPSK	2310	1	0	22.46	0.30	22.76	<=23.98	Pass
			25	22.51	0.30	22.81	<=23.98	Pass
			49	22.24	0.30	22.54	<=23.98	Pass
		25	0	21.46	0.30	21.76	<=23.98	Pass
			13	21.53	0.30	21.83	<=23.98	Pass
			25	21.11	0.30	21.41	<=23.98	Pass
		50	0	21.37	0.30	21.67	<=23.98	Pass
		16QAM	2310	1	0	21.16	0.30	21.46
25	21.15				0.30	21.45	<=23.98	Pass
49	21.17				0.30	21.47	<=23.98	Pass
25	0			20.50	0.30	20.80	<=23.98	Pass
	13			20.39	0.30	20.69	<=23.98	Pass
	25			20.32	0.30	20.62	<=23.98	Pass
50	0			20.43	0.30	20.73	<=23.98	Pass
64QAM	2310			1	0	20.99	0.30	21.29
		25	21.42		0.30	21.72	<=23.98	Pass
		49	20.30		0.30	20.60	<=23.98	Pass
		25	0	20.55	0.30	20.85	<=23.98	Pass
			13	20.45	0.30	20.75	<=23.98	Pass
			25	20.29	0.30	20.59	<=23.98	Pass
		50	0	20.38	0.30	20.68	<=23.98	Pass
		Note1: EIRP/10MHz=Conducted Power+Antenna Gain						