

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band II_EIRP

Band: II								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	23.15	2.15	25.30	<=33.00	Pass
			1880	23.27	2.15	25.42	<=33.00	Pass
			1907.6	23.43	2.15	25.58	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 Test Result

2.1.1 Band II

Band: II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.4	7.109	0.0038	/	Pass
			3.8	7.363	0.0040	/	Pass
			4.2	7.688	0.0042	/	Pass
		-30	3.8	7.167	0.0039	/	Pass
		-20	3.8	6.245	0.0034	/	Pass
		-10	3.8	5.659	0.0031	/	Pass
		0	3.8	8.427	0.0045	/	Pass
		10	3.8	7.645	0.0041	/	Pass
		30	3.8	6.925	0.0037	/	Pass
		40	3.8	6.431	0.0035	/	Pass
		50	3.8	8.089	0.0044	/	Pass
	1880	20	3.4	-0.595	-0.0003	/	Pass
			3.8	-0.618	-0.0003	/	Pass
			4.2	-1.209	-0.0006	/	Pass
		-30	3.8	-1.517	-0.0008	/	Pass
		-20	3.8	-1.178	-0.0006	/	Pass
		-10	3.8	-1.884	-0.0010	/	Pass
		0	3.8	-1.762	-0.0009	/	Pass
		10	3.8	-0.153	-0.0001	/	Pass
		30	3.8	-0.230	-0.0001	/	Pass
		40	3.8	0.174	0.0001	/	Pass
		50	3.8	-0.234	-0.0001	/	Pass
	1907.6	20	3.4	-10.101	-0.0053	/	Pass
			3.8	-9.596	-0.0050	/	Pass
			4.2	-10.313	-0.0054	/	Pass
		-30	3.8	-10.141	-0.0053	/	Pass
		-20	3.8	-11.070	-0.0058	/	Pass
		-10	3.8	-9.307	-0.0049	/	Pass
		0	3.8	-9.836	-0.0052	/	Pass
		10	3.8	-9.208	-0.0048	/	Pass
		30	3.8	-10.638	-0.0056	/	Pass
		40	3.8	-10.071	-0.0053	/	Pass
		50	3.8	-9.872	-0.0052	/	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band II_OBW

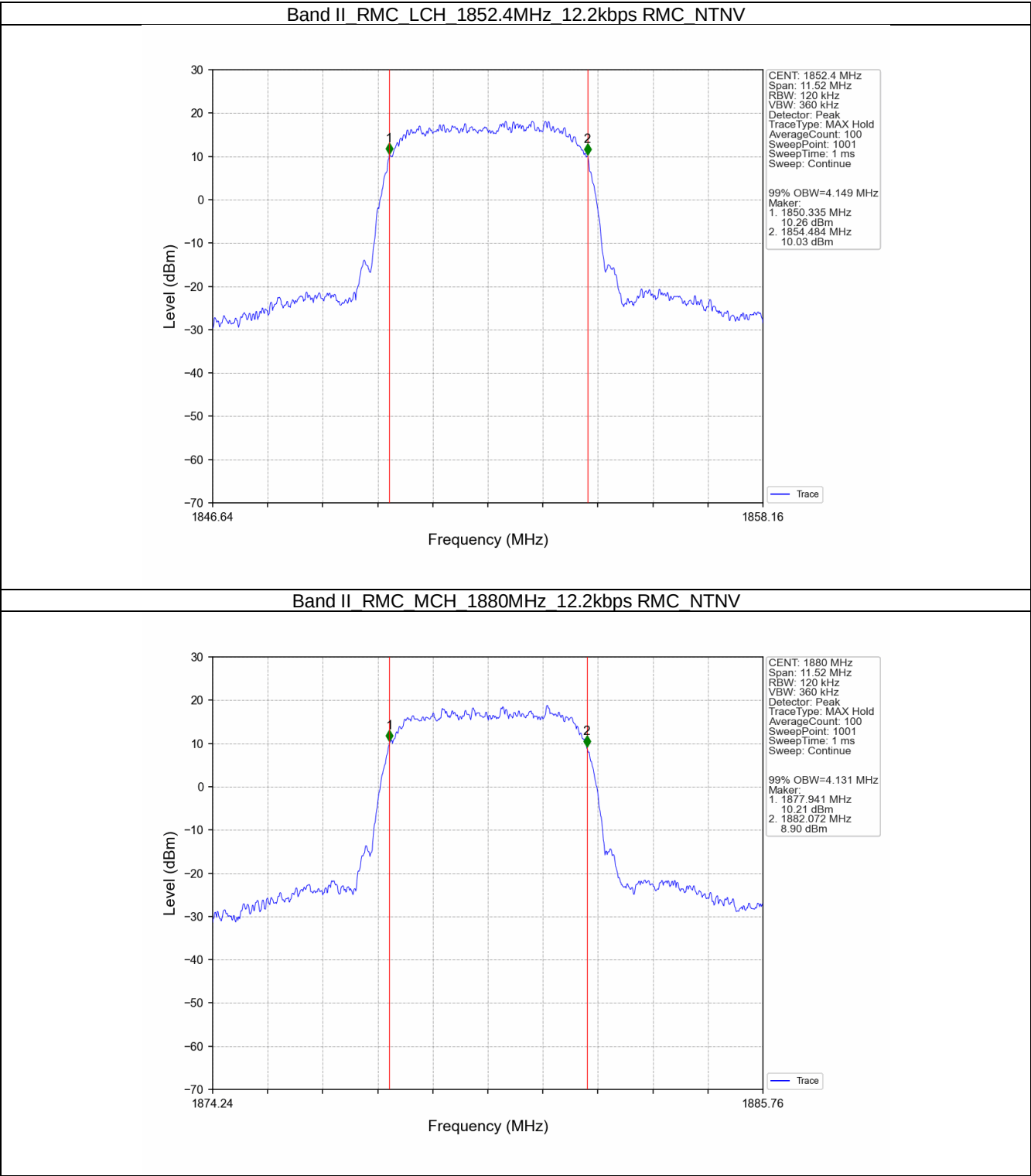
Band: II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.149	/	Pass
			1880	4.131	/	Pass
			1907.6	4.098	/	Pass

3.1.2 Band II_XDB

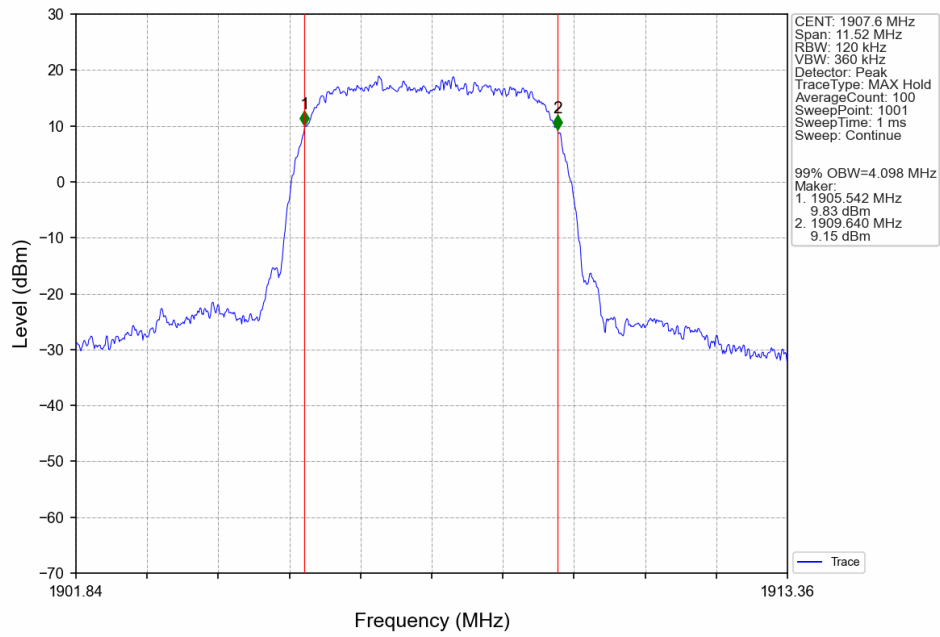
Band: II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.722	/	Pass
			1880	4.723	/	Pass
			1907.6	4.717	/	Pass

3.2 Test Graph

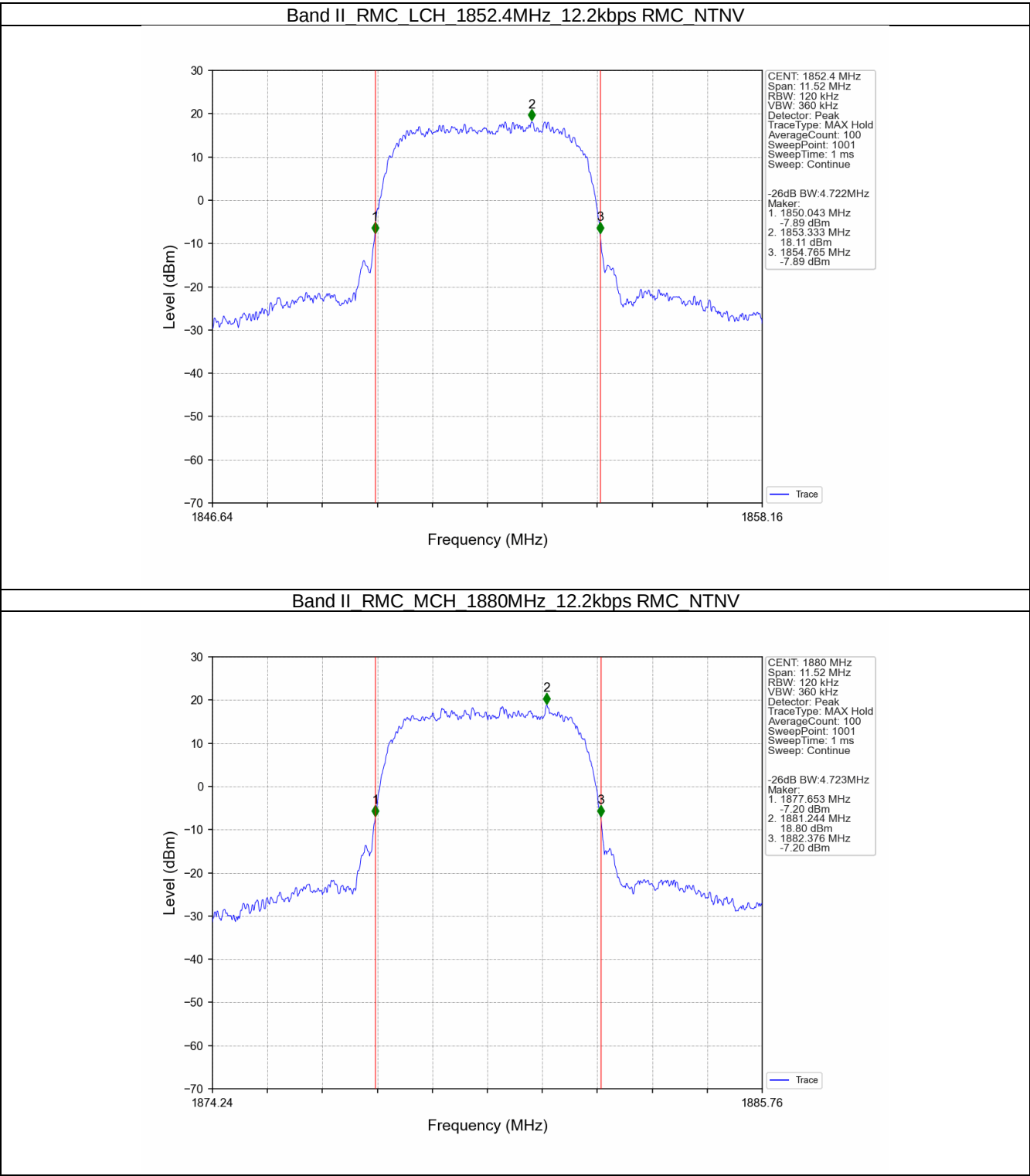
3.2.1 Band II_OBW



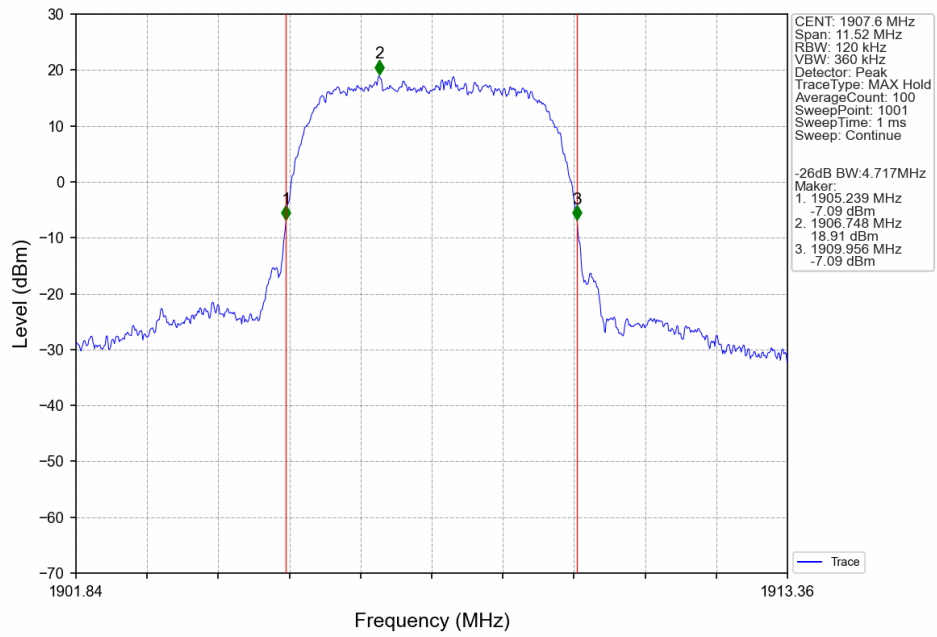
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



3.2.2 Band II_XDB



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



4. Peak-Average Ratio

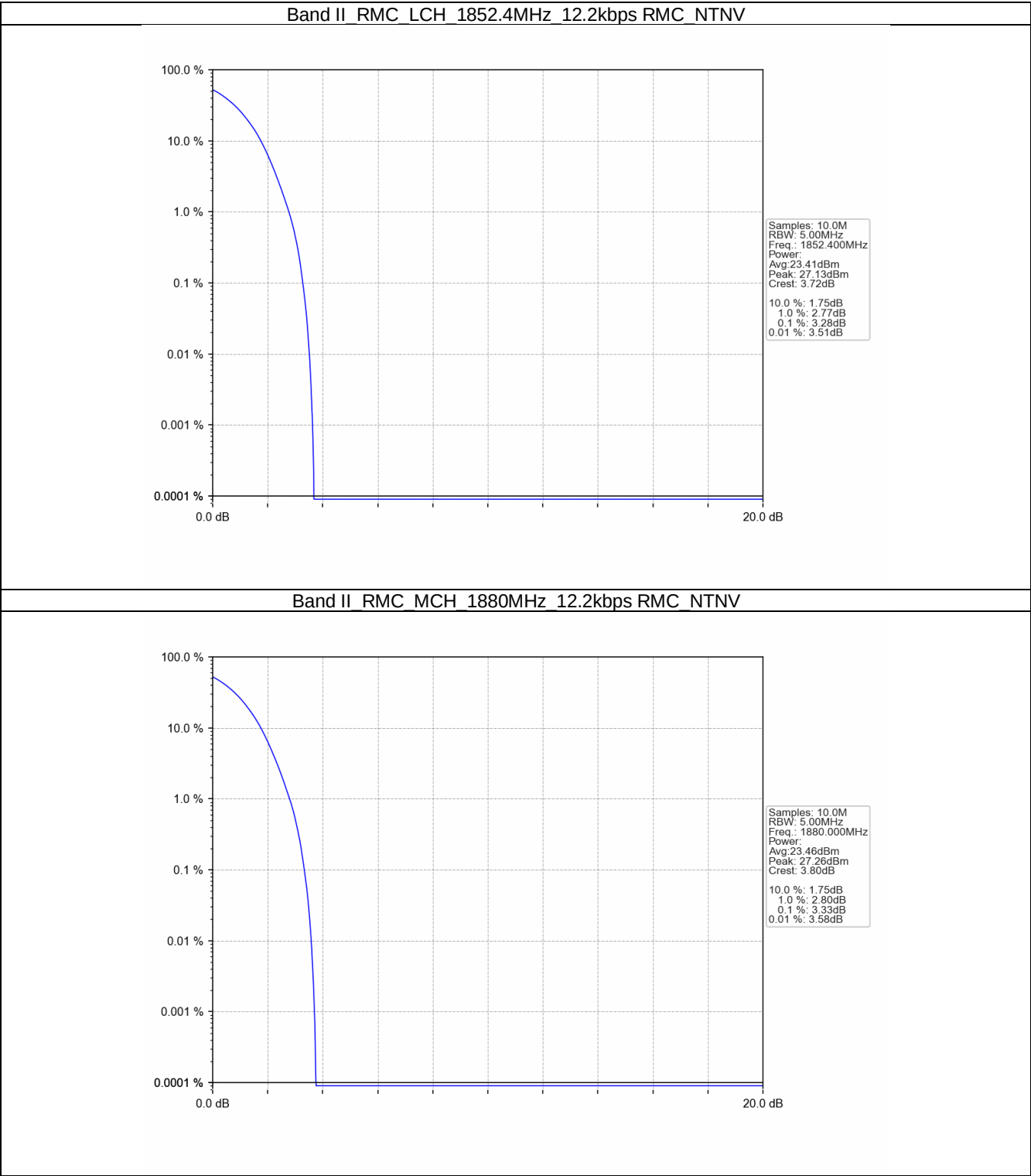
4.1 Test Result

4.1.1 Band II

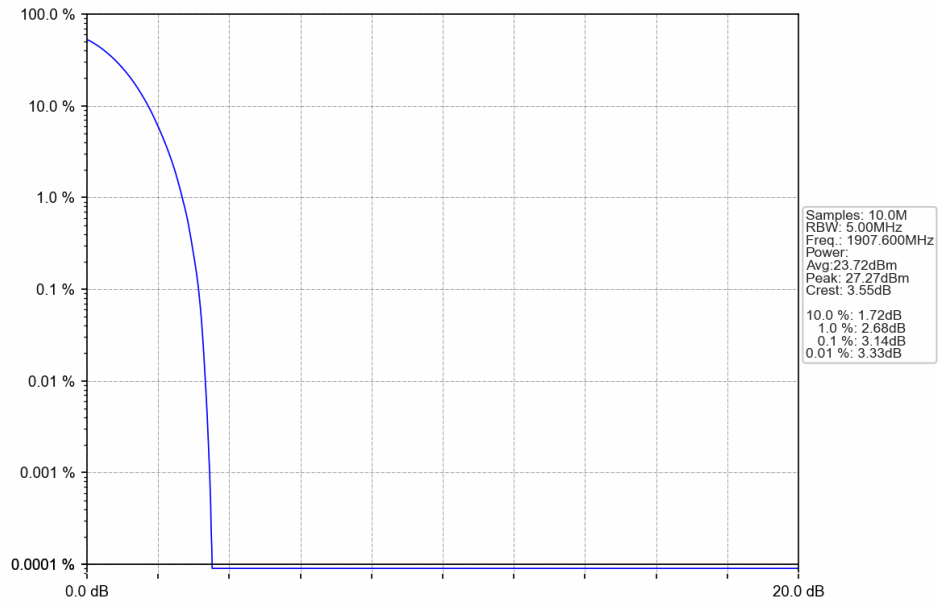
Band: II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.28	<=13	Pass
			1880	3.33	<=13	Pass
			1907.6	3.14	<=13	Pass

4.2 Test Graph

4.2.1 Band II



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



5. Spurious Emission & Band Edges

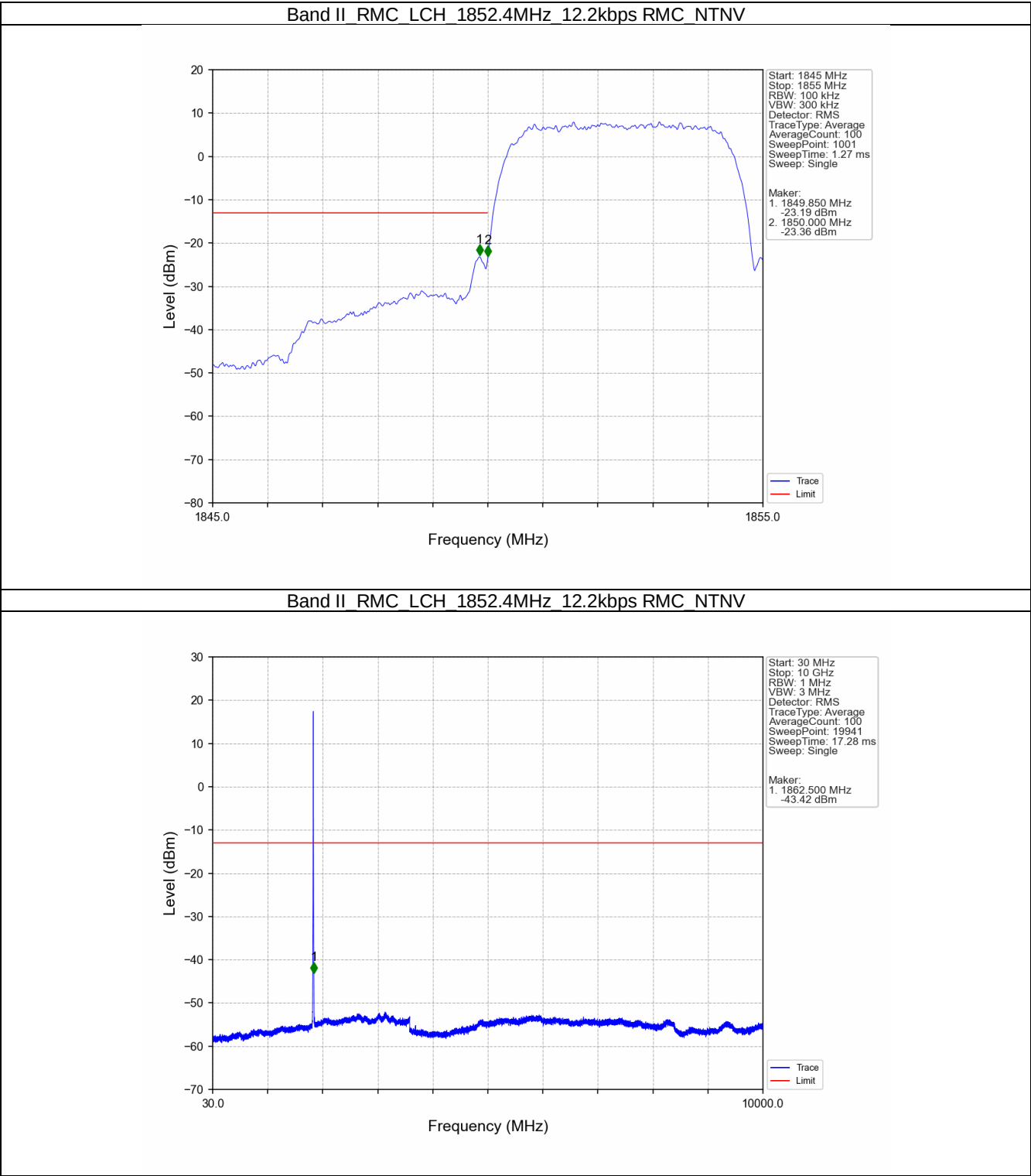
5.1 Test Result

5.1.1 Band II

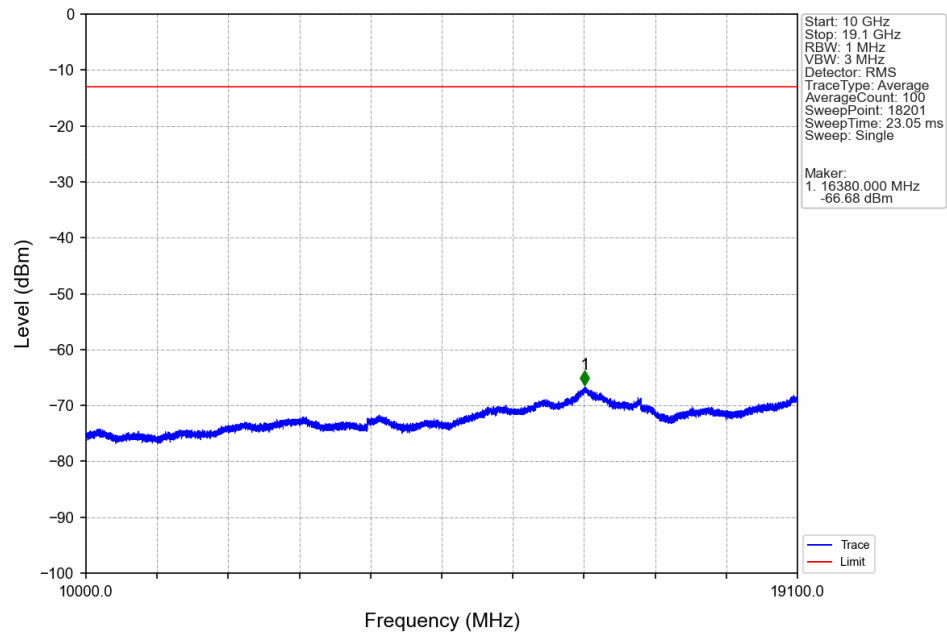
Band: II						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1907.6	Refer To Test Graph		Pass

5.2 Test Graph

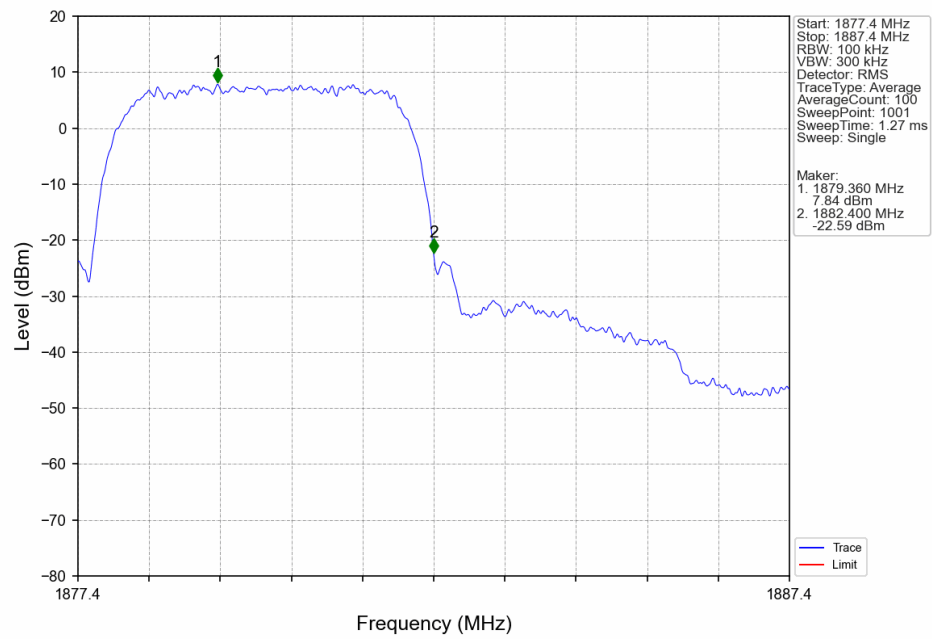
5.2.1 Band II



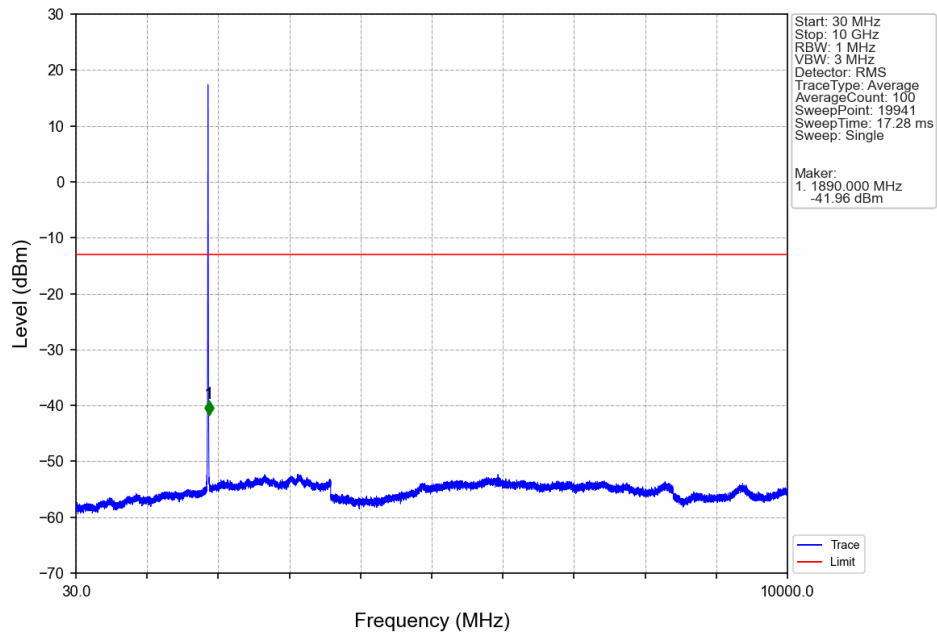
Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



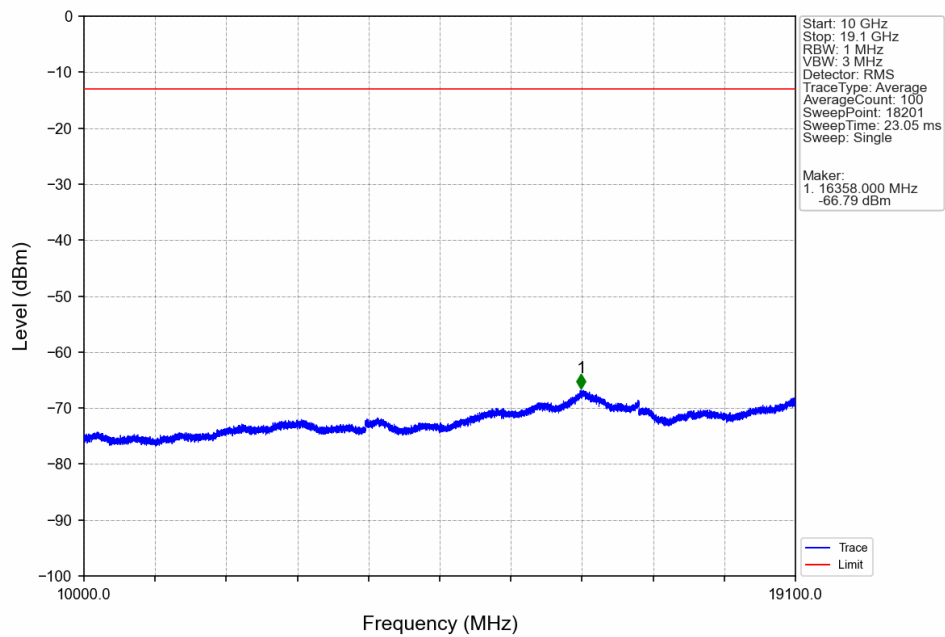
Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



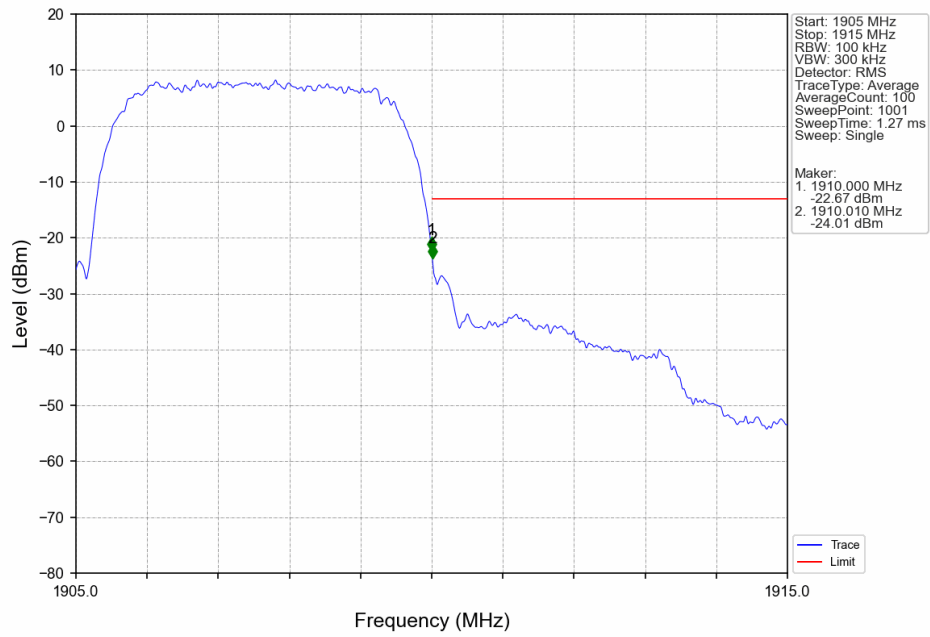
Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



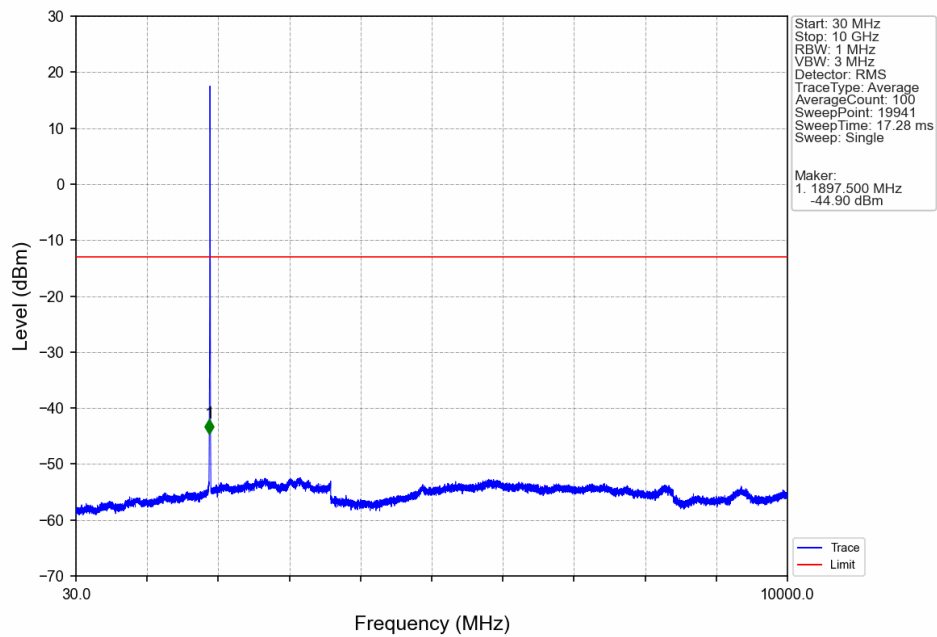
Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



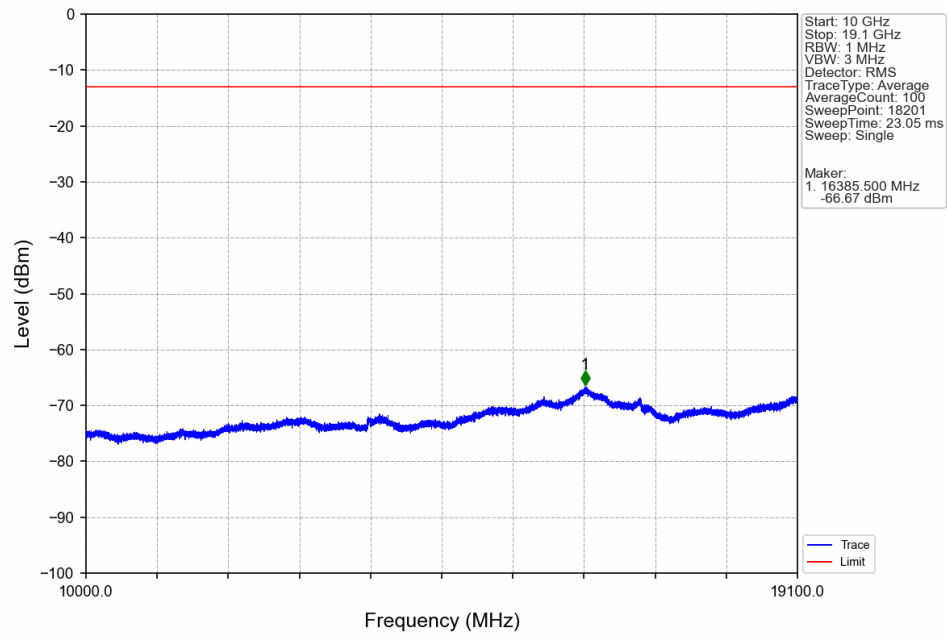
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



6. Field Strength of Spurious Radiation

Test Band = WCDMA Band II _ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3705.75	51.61	-45.52	28.93	-60.24	-13.00	47.24	Horizontal
2	4719.75	42.60	-45.59	30.95	-67.30	-13.00	54.30	Horizontal
3	6120.75	42.24	-44.51	32.81	-64.72	-13.00	51.72	Horizontal
4	7003.5	41.48	-43.57	35.01	-62.34	-13.00	49.34	Horizontal
5	8805.75	40.25	-41.25	36.62	-59.64	-13.00	46.64	Horizontal
6	10298.25	36.20	-39.10	38.53	-59.63	-13.00	46.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.75	48.73	-45.51	28.92	-63.12	-13.00	50.12	Vertical
2	4726.5	43.53	-45.58	30.96	-66.35	-13.00	53.35	Vertical
3	5856.75	42.75	-44.87	32.37	-65.01	-13.00	52.01	Vertical
4	7291.5	41.78	-43.72	35.82	-61.39	-13.00	48.39	Vertical
5	9472.5	39.46	-40.12	37.45	-58.48	-13.00	45.48	Vertical
6	10033.5	36.88	-39.20	38.50	-59.08	-13.00	46.08	Vertical

Test Band = WCDMA Band II _ 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	3761.25	50.20	-45.76	29.02	-61.80	-13.00	48.80	Horizontal
2	5364.75	43.77	-45.23	32.06	-64.66	-13.00	51.66	Horizontal
3	6435	41.75	-44.48	33.88	-64.11	-13.00	51.11	Horizontal
4	7850.25	41.09	-42.57	36.89	-59.85	-13.00	46.85	Horizontal
5	9810	37.60	-39.47	38.12	-59.01	-13.00	46.01	Horizontal
6	12149.25	34.62	-37.41	39.14	-58.91	-13.00	45.91	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759	47.37	-45.75	29.01	-64.62	-13.00	51.62	Vertical
2	5388.75	43.42	-45.28	32.10	-65.02	-13.00	52.02	Vertical
3	7072.5	41.53	-44.03	35.20	-62.56	-13.00	49.56	Vertical
4	8599.5	40.33	-41.33	36.74	-59.52	-13.00	46.52	Vertical
5	10679.25	35.14	-38.00	38.57	-59.55	-13.00	46.55	Vertical
6	12767.25	33.86	-36.78	39.33	-58.85	-13.00	45.85	Vertical

Test Band = WCDMA Band II _ 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	3813.75	48.58	-45.97	29.10	-63.55	-13.00	50.55	Horizontal
2	5565	42.38	-45.13	32.31	-65.70	-13.00	52.70	Horizontal
3	7002	41.20	-43.56	35.01	-62.62	-13.00	49.62	Horizontal
4	8887.5	40.00	-41.24	36.57	-59.93	-13.00	46.93	Horizontal
5	11246.25	34.68	-37.40	38.72	-59.26	-13.00	46.26	Horizontal
6	14391.75	32.07	-34.91	41.11	-56.99	-13.00	43.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3813.75	45.53	-45.97	29.10	-66.60	-13.00	53.60	Vertical
2	5432.25	43.81	-45.28	32.18	-64.55	-13.00	51.55	Vertical
3	7029.75	41.38	-43.75	35.08	-62.54	-13.00	49.54	Vertical
4	8549.25	40.23	-41.48	36.77	-59.74	-13.00	46.74	Vertical
5	10713.75	34.98	-37.98	38.57	-59.69	-13.00	46.69	Vertical
6	13776.75	33.45	-36.34	40.49	-57.67	-13.00	44.67	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---