Appendix B.1

WCDMA Band II

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band II_EIRP

1.1.1 Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	24.15	24.4	33	PASS
Band II	9400	24.4	24.65	33	PASS
Band II	9538	23.5	23.75	33	PASS

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2. Frequency Stability

2.1 Band II

2.1.1 Test Result

Band II							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1852.4	20	3.135	1.383	0.0007	/	Pass
			3.7	1.475	0.0008	/	Pass
			4.4	2.246	0.0012	/	Pass
		-30	3.7	1.965	0.0011	/	Pass
		-20	3.7	2.049	0.0011	/	Pass
		-10	3.7	2.738	0.0015	/	Pass
		0	3.7	2.577	0.0014	/	Pass
		10	3.7	3.206	0.0017	/	Pass
		30	3.7	2.567	0.0014	/	Pass
		40	3.7	3.402	0.0018	/	Pass
		50	3.7	3.166	0.0017	/	Pass
	1880	20	3.135	1.017	0.0005	/	Pass
			3.7	1.375	0.0007	/	Pass
			4.4	1.189	0.0006	/	Pass
		-30	3.7	1.151	0.0006	/	Pass
		-20	3.7	1.644	0.0009	/	Pass
		-10	3.7	2.175	0.0012	/	Pass
		0	3.7	1.724	0.0009	/	Pass
		10	3.7	1.416	0.0008	/	Pass
		30	3.7	1.644	0.0009	/	Pass
		40	3.7	1.804	0.0010	/	Pass
		50	3.7	1.803	0.0010	/	Pass
	1907.6	20	3.135	-1.408	-0.0007	/	Pass
			3.7	-1.128	-0.0006	/	Pass
			4.4	-1.090	-0.0006	/	Pass
		-30	3.7	-0.887	-0.0005	/	Pass
		-20	3.7	-0.974	-0.0005	/	Pass
		-10	3.7	-1.402	-0.0007	/	Pass
		0	3.7	-0.806	-0.0004	/	Pass
		10	3.7	-1.447	-0.0008	/	Pass
		30	3.7	-1.066	-0.0006	/	Pass
		40	3.7	-1.475	-0.0008	/	Pass
		50	3.7	-1.469	-0.0008	/	Pass

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3. 99% & 26dB Bandwidth

3.1 Band II_OBW

3.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.157	/	Pass
			1880	4.170	/	Pass
			1907.6	4.169	/	Pass

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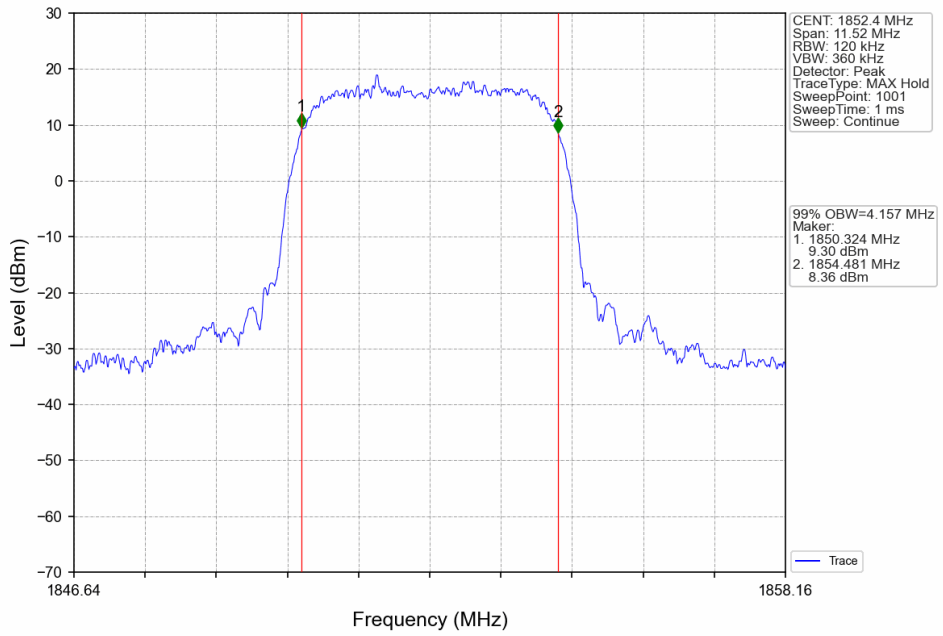
3.1.2 Test Graph

Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

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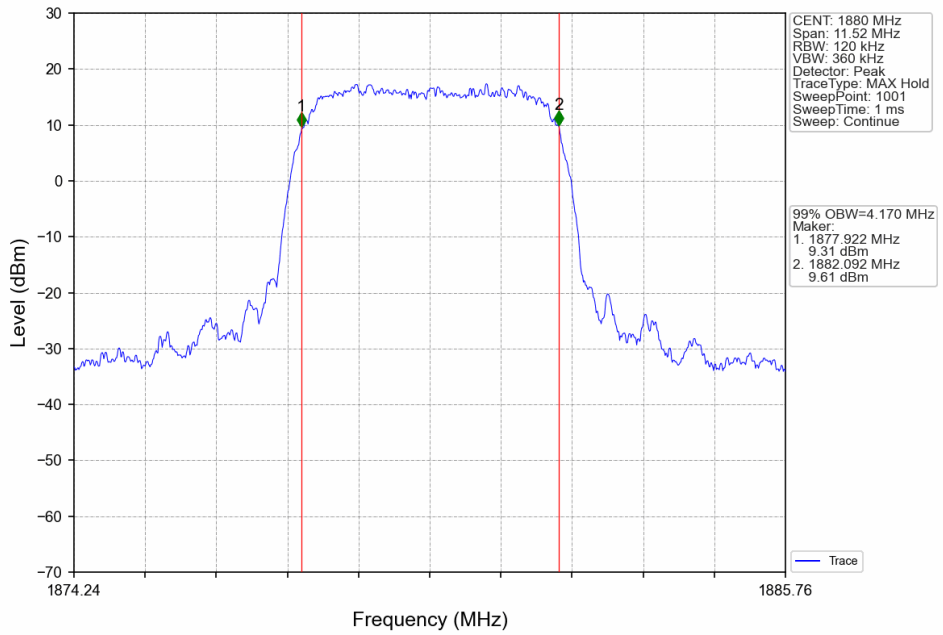

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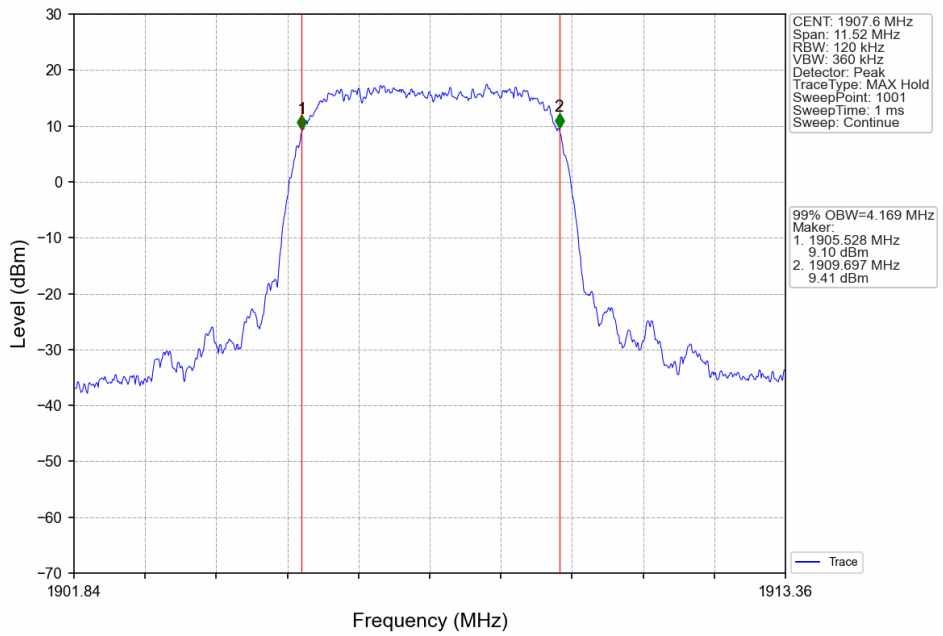
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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3.2 Band II_XDB

3.2.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	4.748	/	Pass
			1880	4.775	/	Pass
			1907.6	4.777	/	Pass

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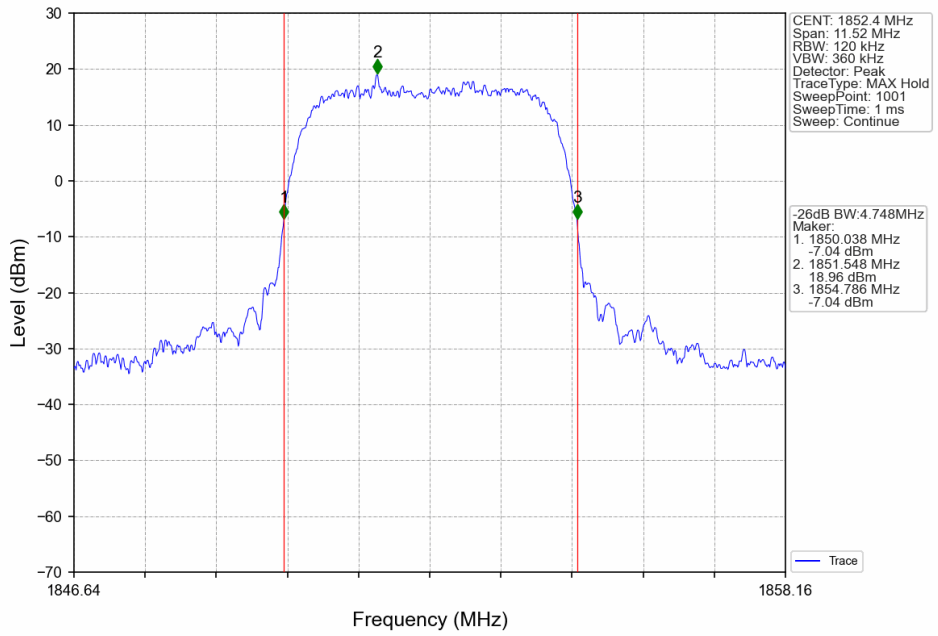
3.2.2 Test Graph

Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

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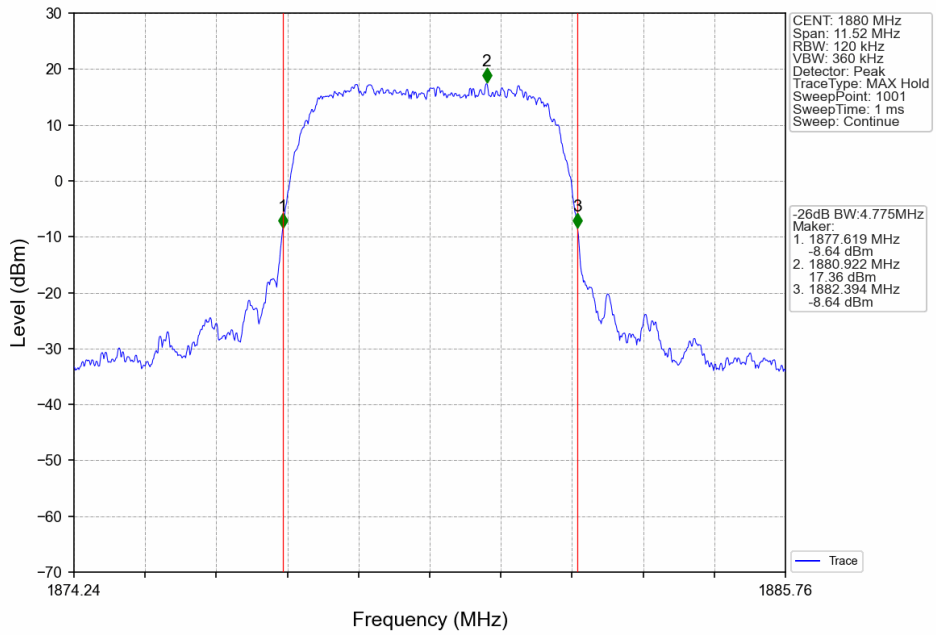

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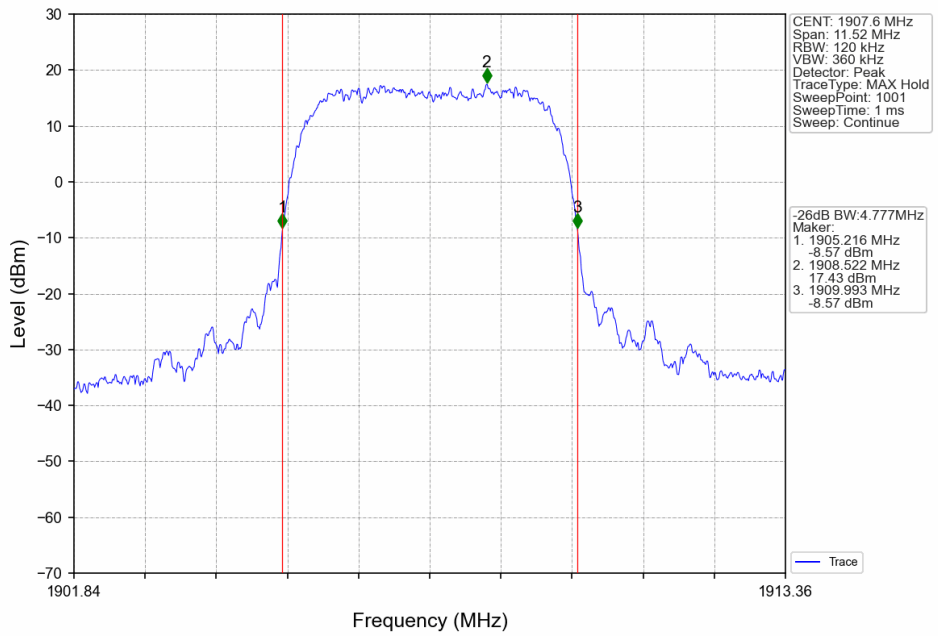
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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4. Peak-Average Ratio

4.1 Band II

4.1.1 Test Result

Band II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	2.92	<=13	Pass
			1880	2.85	<=13	Pass
			1907.6	2.86	<=13	Pass

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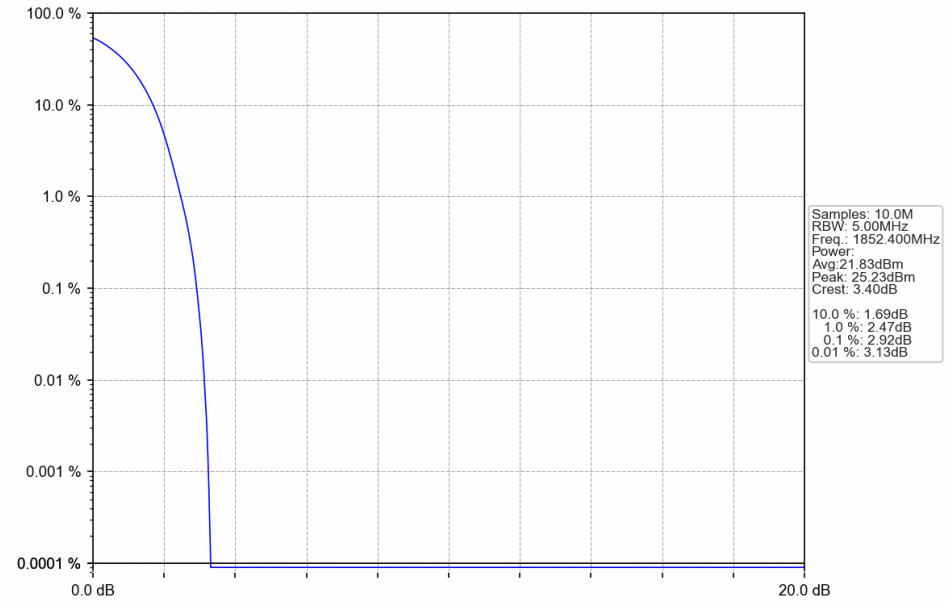
4.1.2 Test Graph

Band II_RMC_LCH_1852.4MHz_12.2kbps RMC_NTNV



Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV

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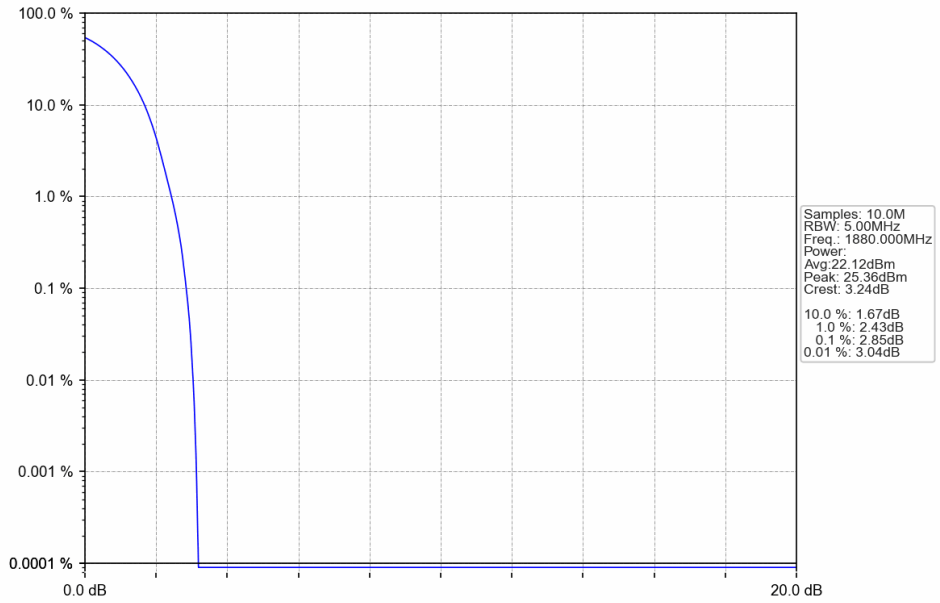

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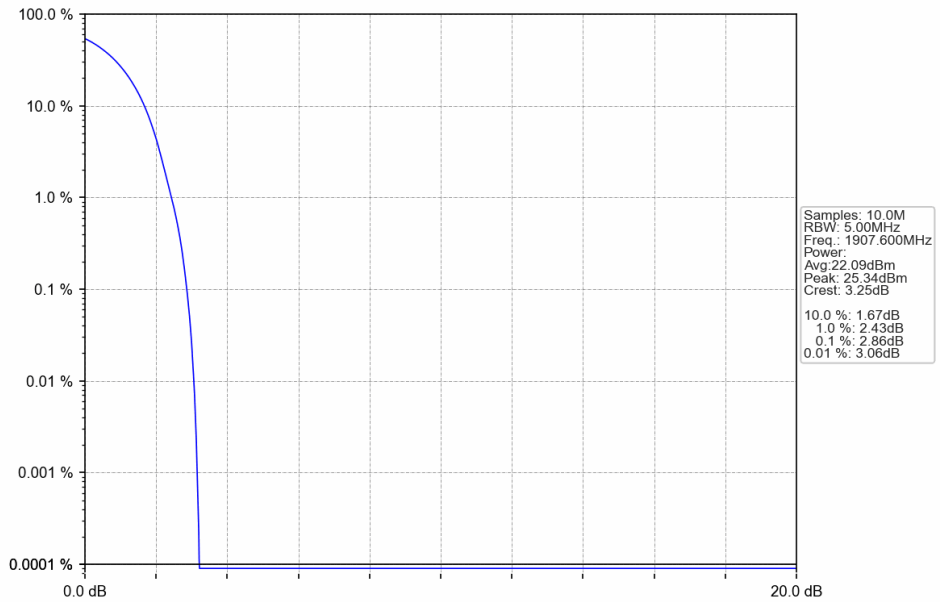
Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edges

5.1 Band II

5.1.1 Test Result

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

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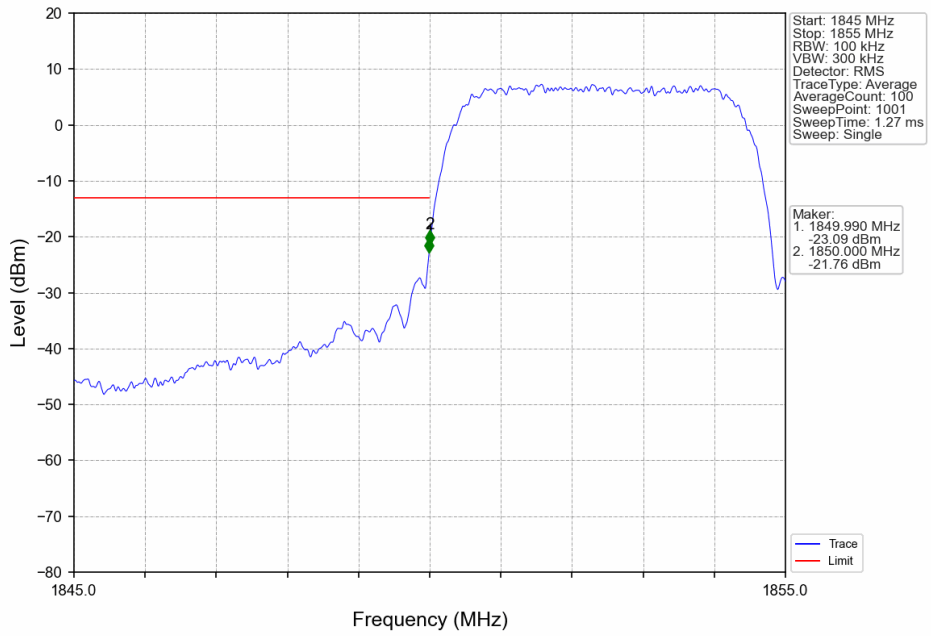

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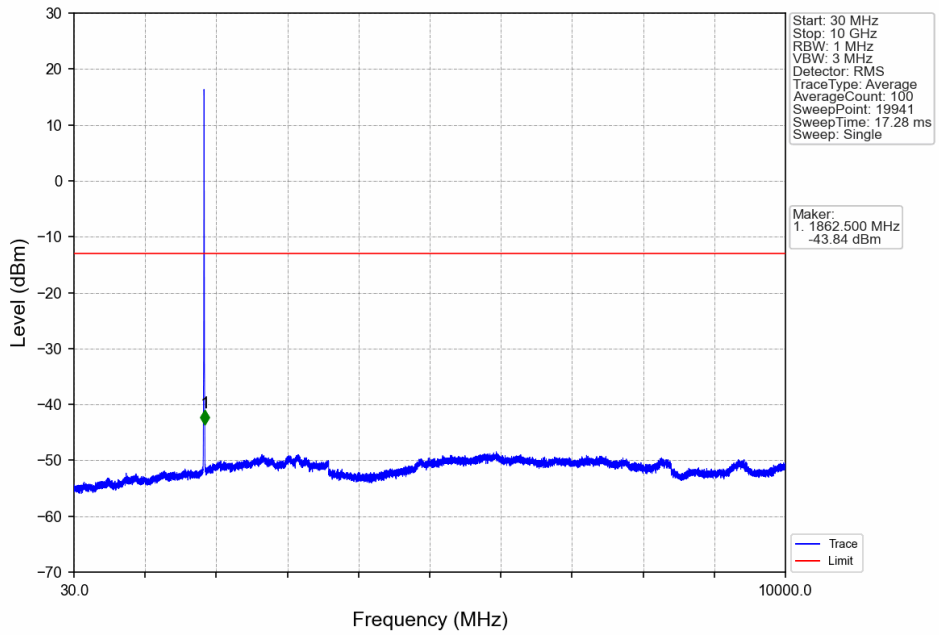

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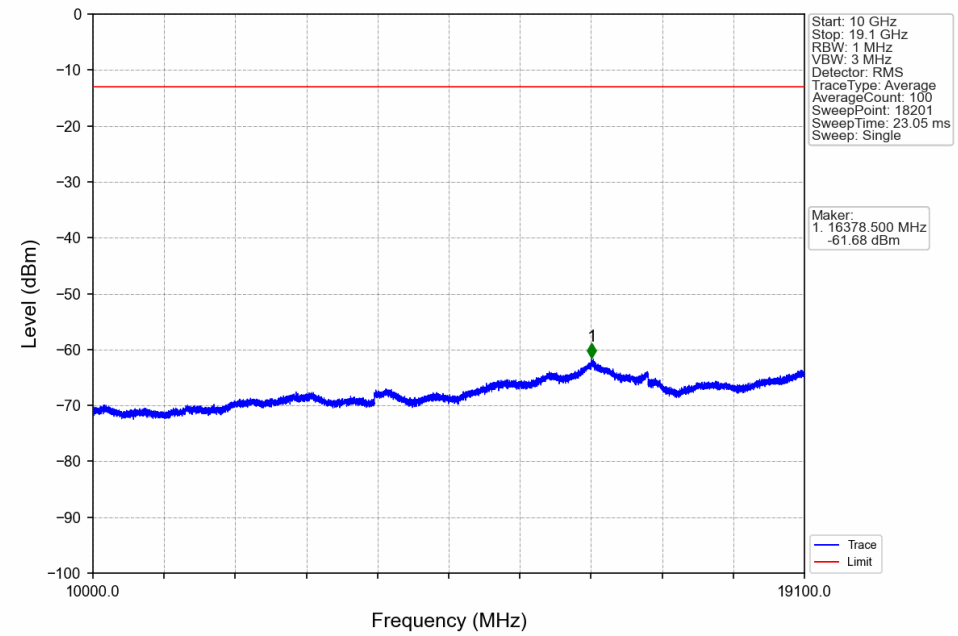

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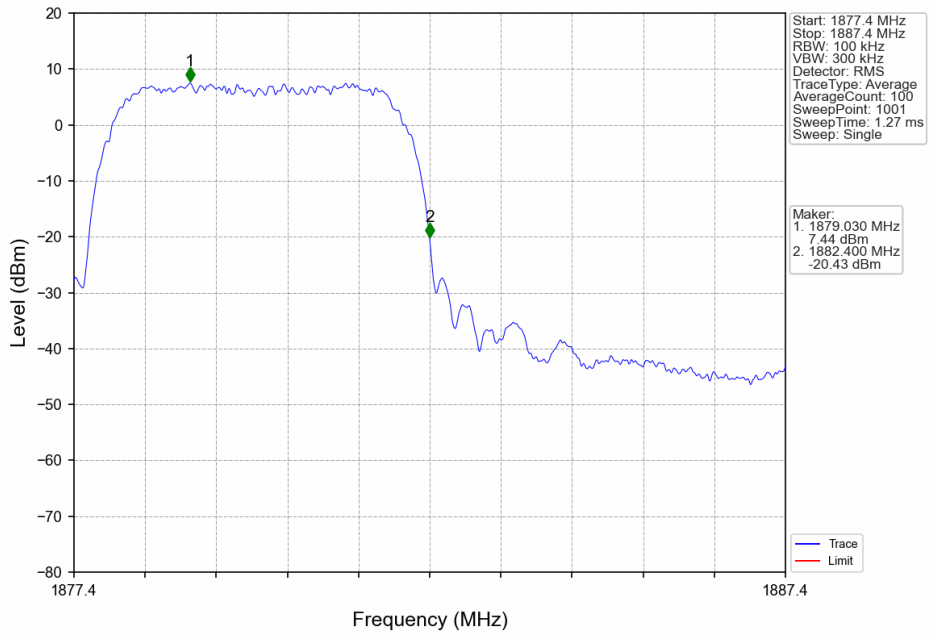

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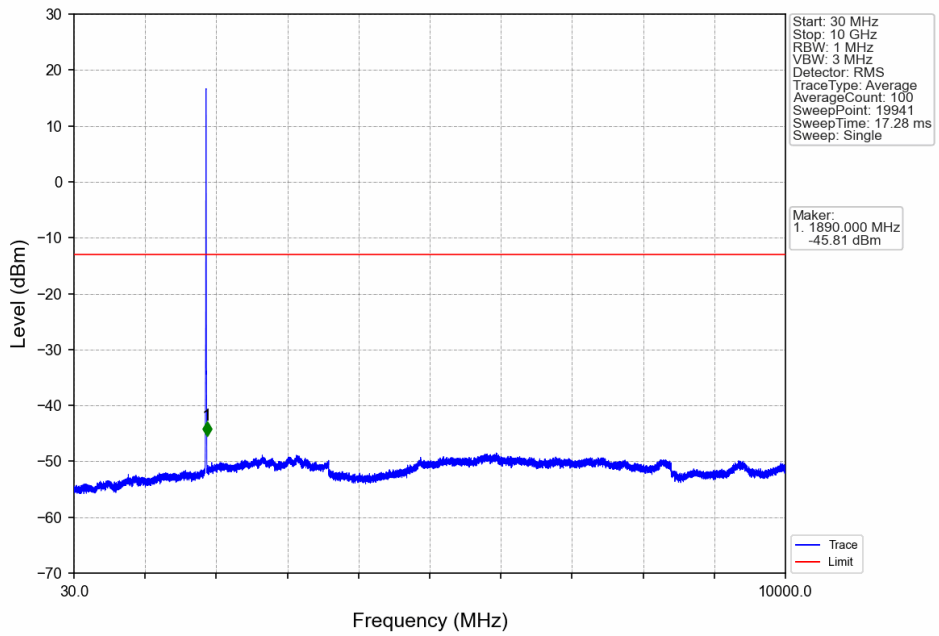

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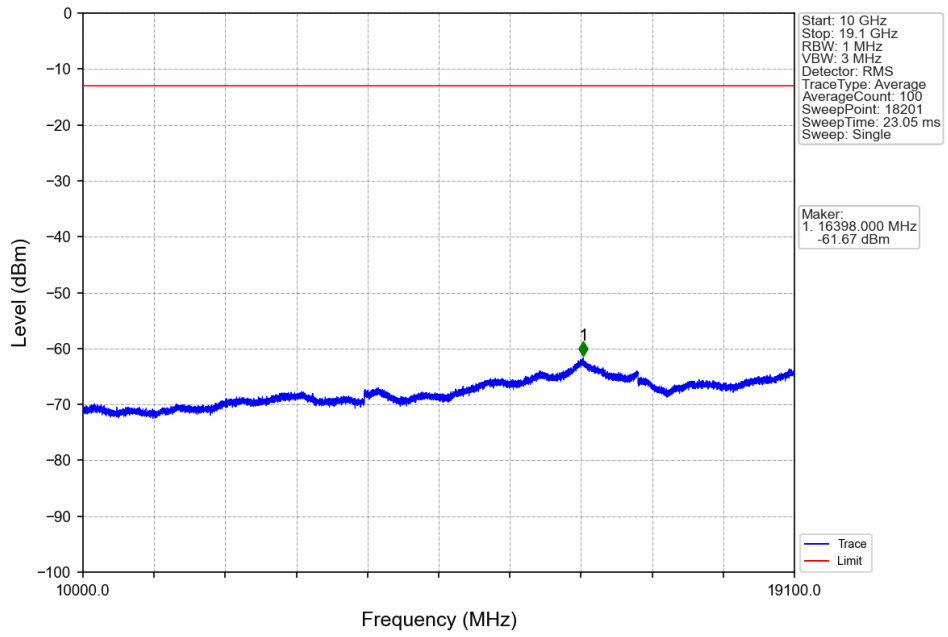

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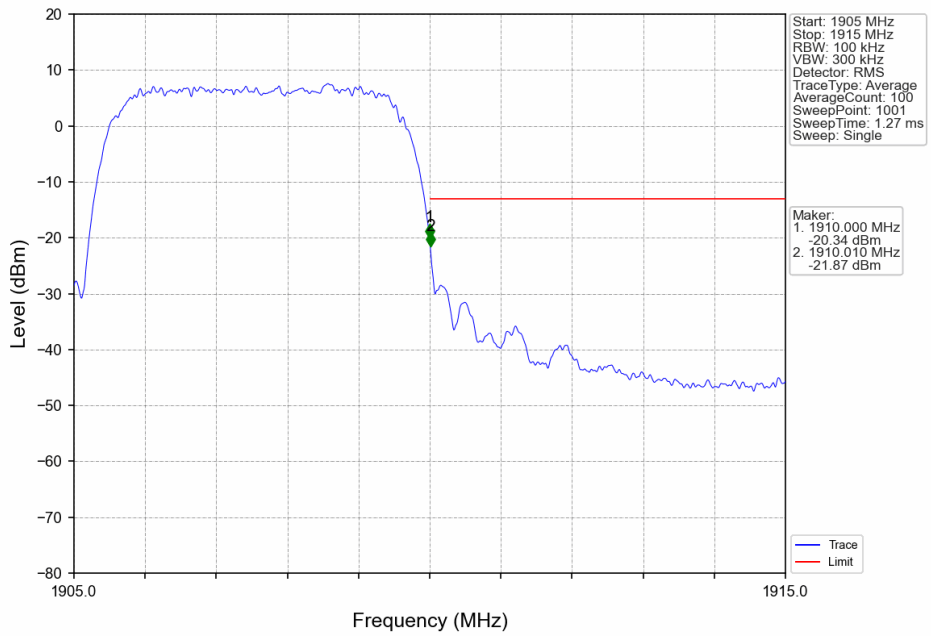

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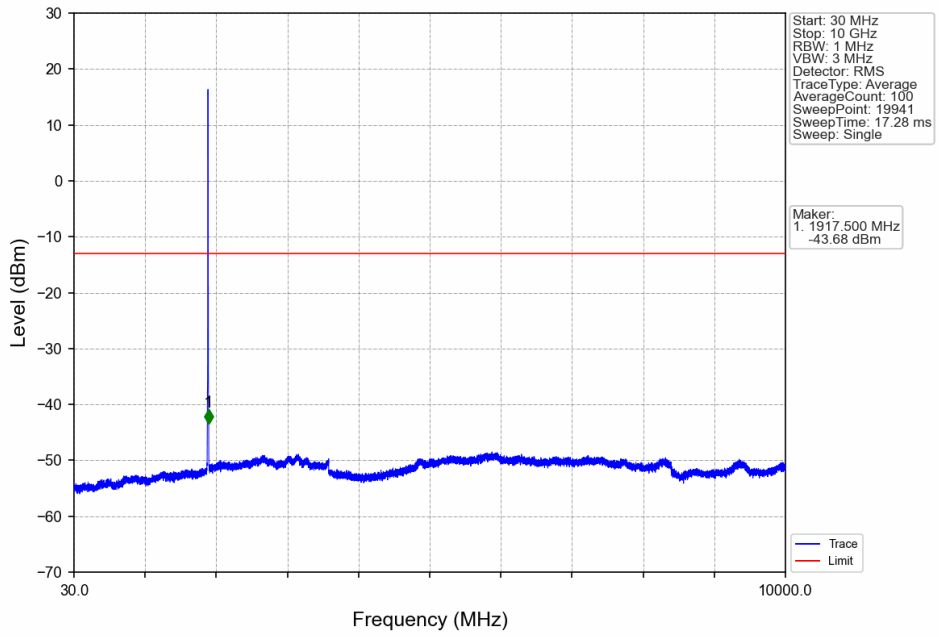

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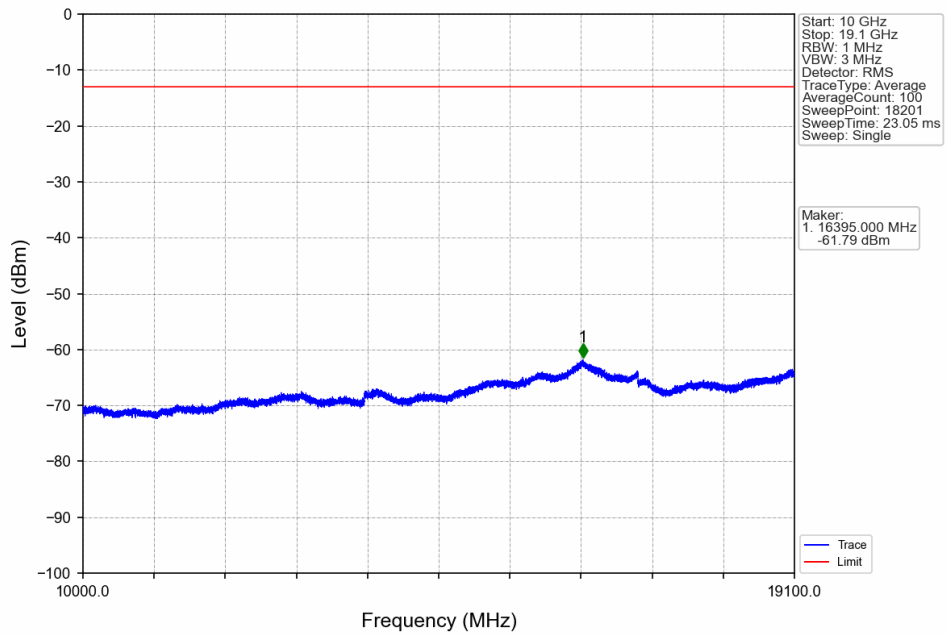

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6. Field Strength of Spurious Radiation

Test Band = WCDMA_ Band II
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3629.2815	54.05	-49.52	30.32	-60.41	-13.00	47.41	Horizontal
2	5894.3947	51.28	-45.63	34.28	-55.33	-13.00	42.33	Horizontal
3	8551.7776	48.88	-41.40	39.07	-48.71	-13.00	35.71	Horizontal
4	11247.4124	47.44	-38.62	39.65	-46.79	-13.00	33.79	Horizontal
5	15020.101	47.35	-35.04	39.88	-43.07	-13.00	30.07	Horizontal
6	17985.7493	48.59	-38.97	42.71	-42.93	-13.00	29.93	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3249.0125	53.31	-50.75	30.60	-62.10	-13.00	49.10	Vertical
2	5159.358	52.52	-47.03	33.36	-56.41	-13.00	43.41	Vertical
3	8550.2775	49.05	-41.37	39.10	-48.48	-13.00	35.48	Vertical
4	10717.8859	47.26	-39.25	39.54	-47.71	-13.00	34.71	Vertical
5	14520.576	47.22	-35.94	40.58	-43.40	-13.00	30.40	Vertical
6	17012.2006	48.17	-35.03	38.48	-43.64	-13.00	30.64	Vertical

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Test Band = WCDMA_ Band II
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3747.0374	53.45	-49.48	30.49	-60.80	-13.00	47.80	Horizontal
2	5099.355	52.21	-47.47	33.50	-57.02	-13.00	44.02	Horizontal
3	6777.9389	50.10	-44.49	36.26	-53.39	-13.00	40.39	Horizontal
4	8545.0273	48.76	-41.46	38.98	-48.98	-13.00	35.98	Horizontal
5	11398.1699	47.81	-38.52	39.70	-46.27	-13.00	33.27	Horizontal
6	15023.8512	47.13	-35.08	39.88	-43.33	-13.00	30.33	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.2881	54.29	-49.50	30.50	-59.97	-13.00	46.97	Vertical
2	5175.8588	52.27	-46.78	32.93	-56.84	-13.00	43.84	Vertical
3	8550.2775	49.03	-41.37	39.10	-48.50	-13.00	35.50	Vertical
4	11391.4196	47.78	-38.56	39.69	-46.35	-13.00	33.35	Vertical
5	14359.318	47.61	-36.40	40.58	-43.47	-13.00	30.47	Vertical
6	17998.4999	48.53	-38.99	42.79	-42.93	-13.00	29.93	Vertical

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Test Band = WCDMA_ Band II
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4011.8006	52.81	-48.95	31.05	-60.35	-13.00	47.35	Horizontal
2	5160.858	52.25	-47.01	33.32	-56.70	-13.00	43.70	Horizontal
3	6856.6928	50.52	-44.61	36.11	-53.24	-13.00	40.24	Horizontal
4	8548.7774	48.72	-41.38	39.07	-48.85	-13.00	35.85	Horizontal
5	11240.662	47.63	-38.69	39.66	-46.66	-13.00	33.66	Horizontal
6	14528.0764	46.84	-35.74	40.57	-43.59	-13.00	30.59	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3817.5409	54.74	-49.68	30.46	-59.74	-13.00	46.74	Vertical
2	5733.1367	51.51	-46.29	33.77	-56.27	-13.00	43.27	Vertical
3	7452.9726	49.87	-43.27	36.69	-51.97	-13.00	38.97	Vertical
4	9485.5743	49.05	-40.72	39.14	-47.79	-13.00	34.79	Vertical
5	14377.3189	47.38	-36.23	40.55	-43.56	-13.00	30.56	Vertical
6	17909.2455	48.14	-38.18	42.26	-43.04	-13.00	30.04	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---

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