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Appendix B.1

WCDMA Band II



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band II_EIRP (NPANT001)

1.1.1 Test Result

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	23.19	3.87	27.06	<=33.00	Pass
			1880	23.15	3.87	27.02	<=33.00	Pass
			1907.6	23.15	3.87	27.02	<=33.00	Pass
Note1: EIRP=Conducted Power+Antenna Gain								



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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	9.127	0.0049	/	Pass
			3.7	9.360	0.0051	/	Pass
			4.4	9.134	0.0049	/	Pass
		-30	3.7	9.219	0.0050	/	Pass
		-20	3.7	10.366	0.0056	/	Pass
		-10	3.7	9.622	0.0052	/	Pass
		0	3.7	9.967	0.0054	/	Pass
		10	3.7	10.650	0.0057	/	Pass
		30	3.7	10.612	0.0057	/	Pass
		40	3.7	10.313	0.0056	/	Pass
		50	3.7	10.235	0.0055	/	Pass
	1880	20	3.135	11.026	0.0059	/	Pass
			3.7	11.243	0.0060	/	Pass
			4.4	10.399	0.0055	/	Pass
		-30	3.7	11.579	0.0062	/	Pass
		-20	3.7	10.369	0.0055	/	Pass
		-10	3.7	11.271	0.0060	/	Pass
		0	3.7	10.645	0.0057	/	Pass
		10	3.7	10.880	0.0058	/	Pass
		30	3.7	11.181	0.0059	/	Pass
		40	3.7	11.165	0.0059	/	Pass
		50	3.7	11.324	0.0060	/	Pass
	1907.6	20	3.135	9.883	0.0052	/	Pass
			3.7	10.431	0.0055	/	Pass
			4.4	10.366	0.0054	/	Pass
		-30	3.7	11.227	0.0059	/	Pass
		-20	3.7	10.959	0.0057	/	Pass
		-10	3.7	10.727	0.0056	/	Pass
		0	3.7	10.112	0.0053	/	Pass
		10	3.7	10.237	0.0054	/	Pass
		30	3.7	11.194	0.0059	/	Pass
		40	3.7	10.306	0.0054	/	Pass
		50	3.7	11.207	0.0059	/	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	4.153	/	Pass
			1880	4.142	/	Pass
			1907.6	4.151	/	Pass



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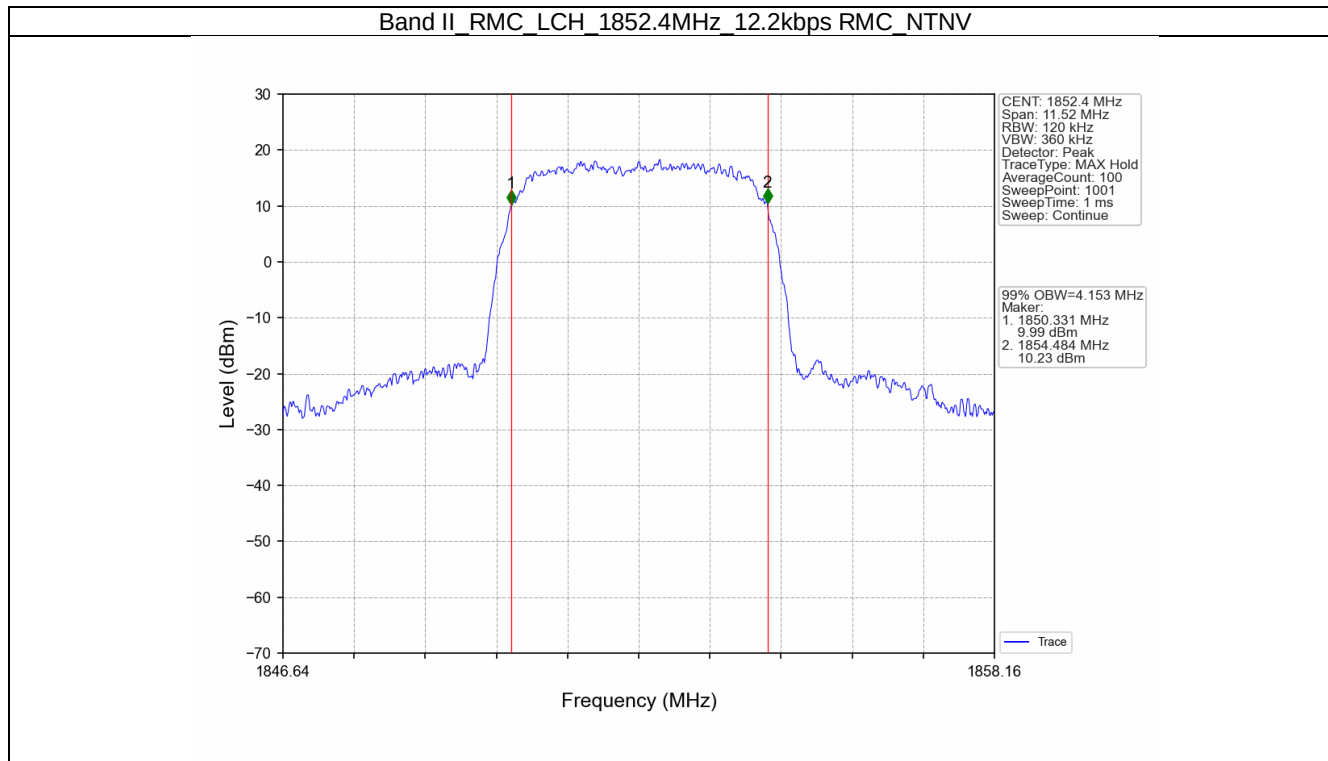
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3.1.2 Test Graph



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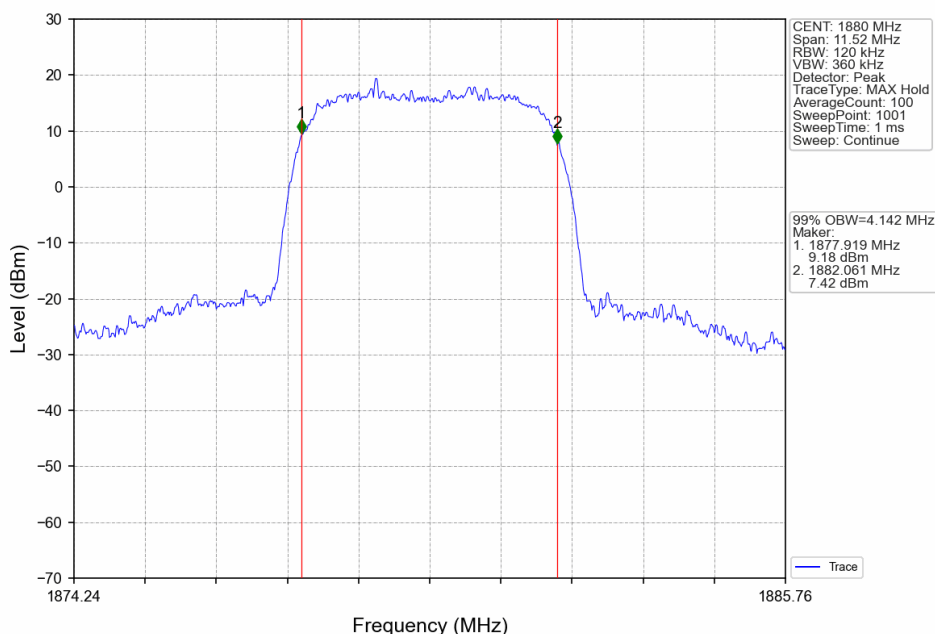
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



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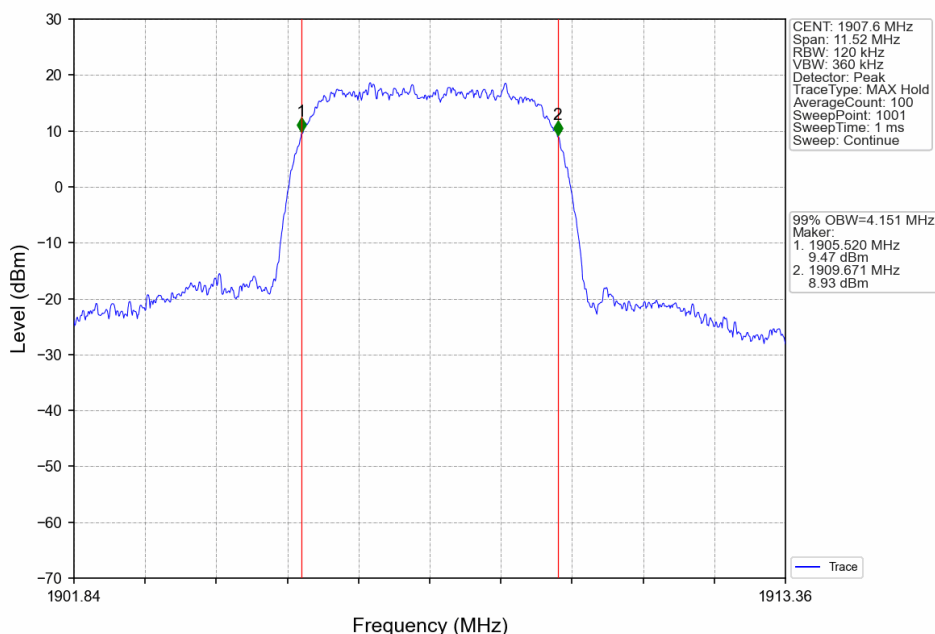
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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3.2 Band II_XDB

3.2.1 Test Result

Band II					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1852.4	4.790	/
			1880	4.726	/
			1907.6	4.773	/
					Pass
					Pass
					Pass



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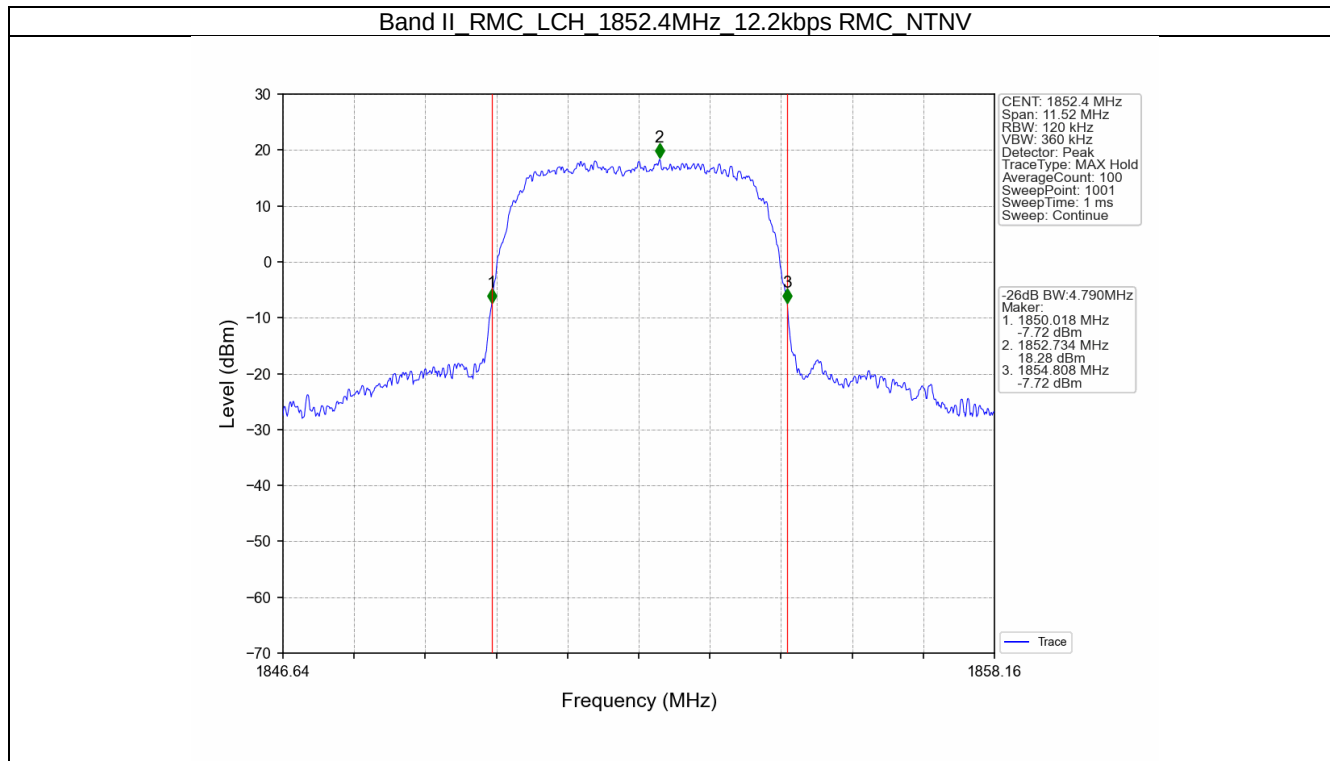
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3.2.2 Test Graph



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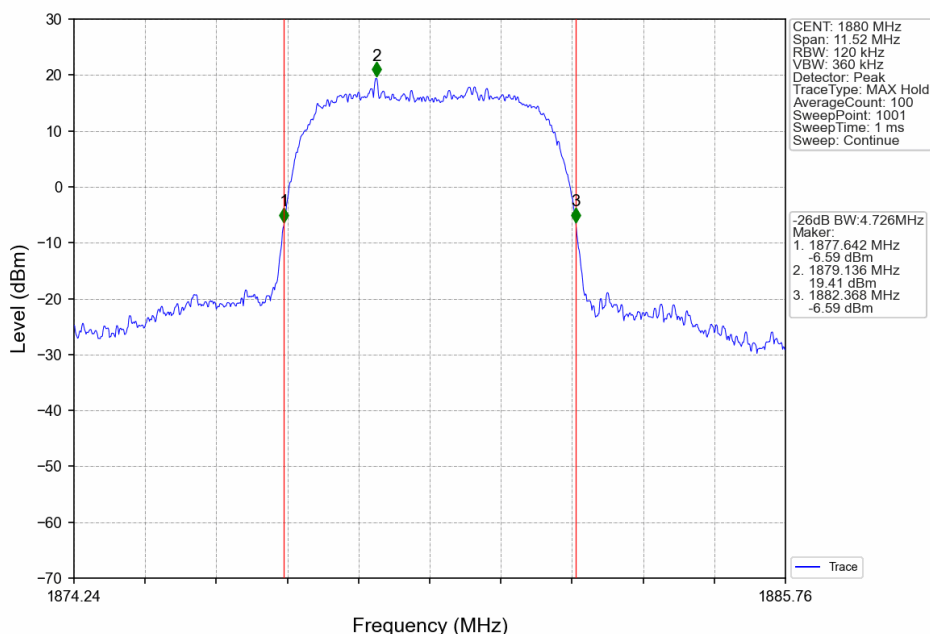
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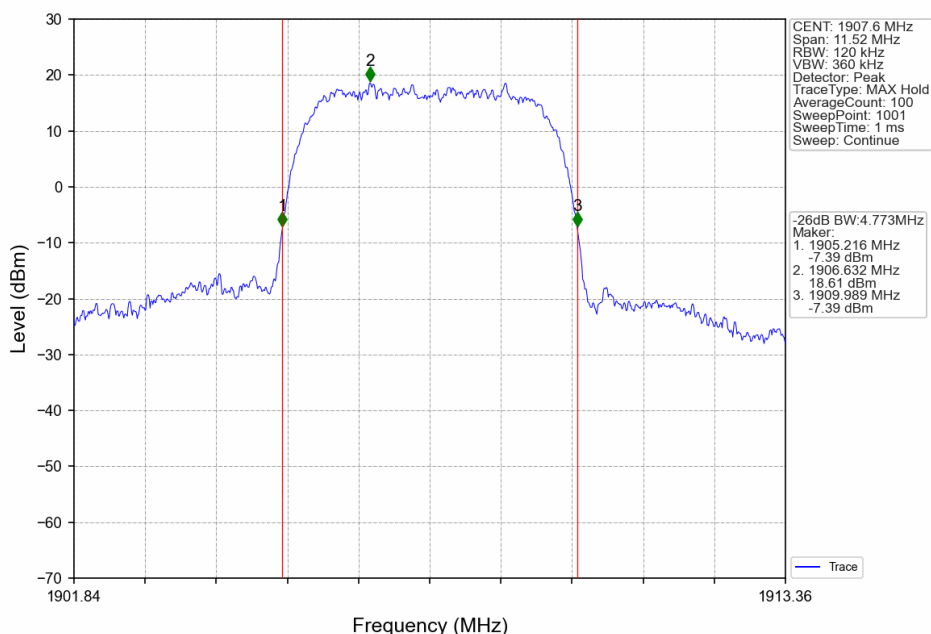
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4. Peak-Average Ratio

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	2.61	<=13	Pass
			1880	2.68	<=13	Pass
			1907.6	2.65	<=13	Pass



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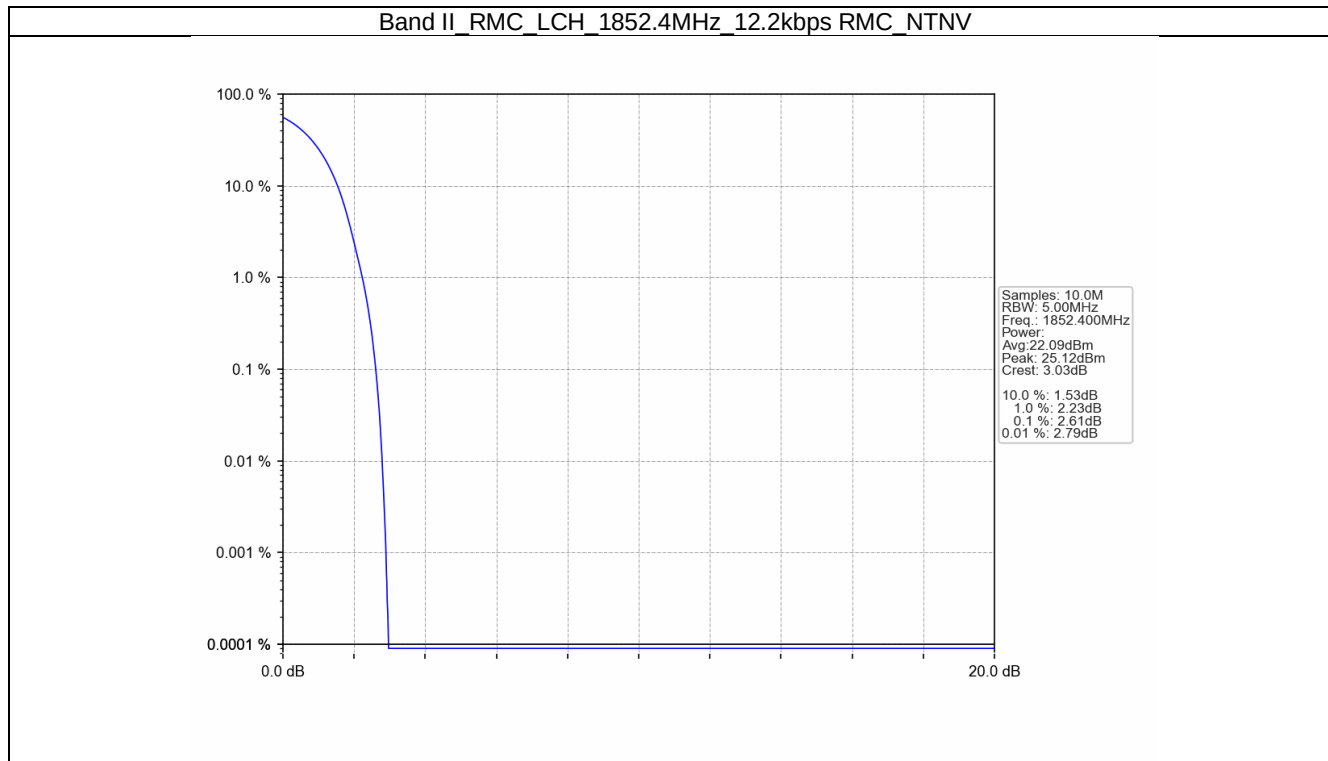
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4.1.2 Test Graph



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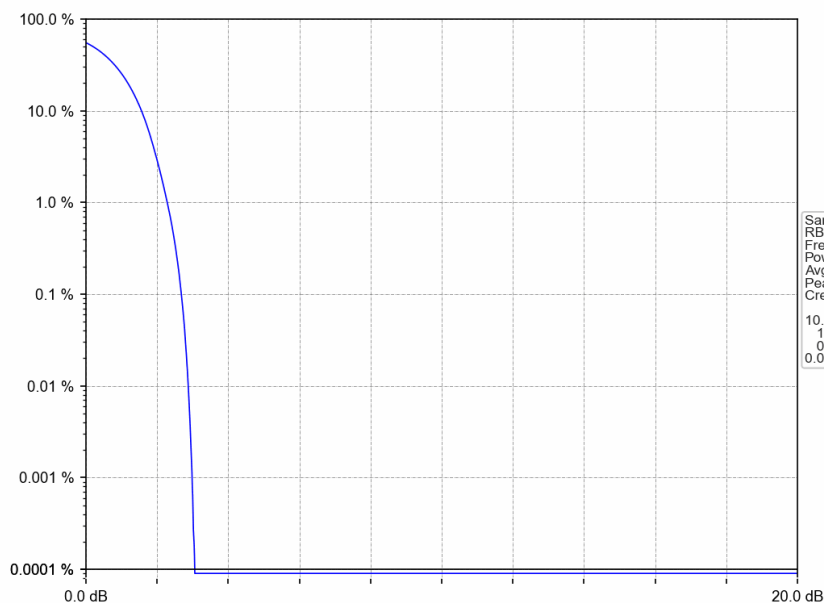
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Band II_RMC_MCH_1880MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1880.000MHz
Power:
Avg: 21.55dBm
Peak: 24.66dBm
Crest: 3.11dB

10.0 %: 1.56dB
1.0 %: 2.28dB
0.1 %: 2.68dB
0.01 %: 2.88dB



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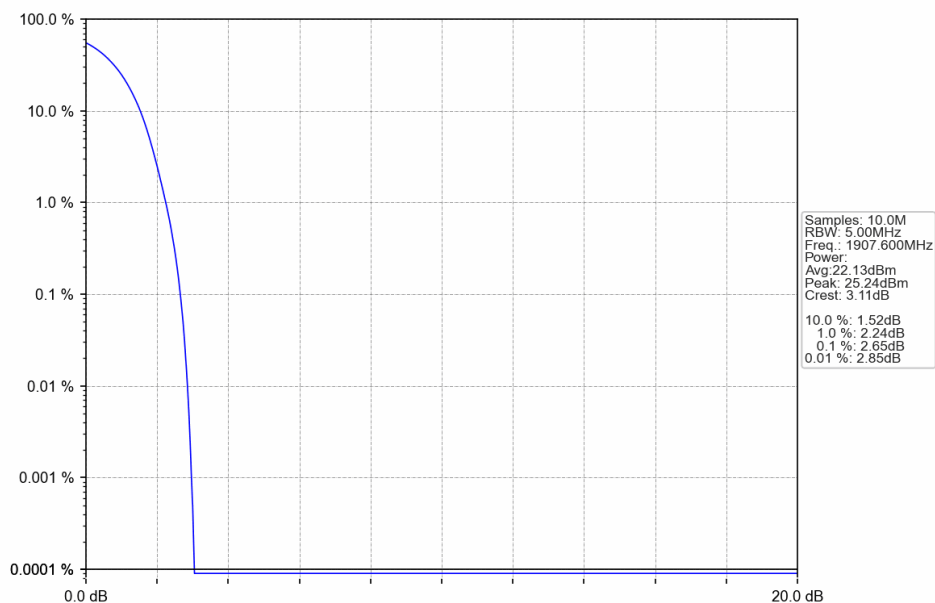
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Band II_RMC_HCH_1907.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edge

5.1 Band II

5.1.1 Test Result

Band II					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	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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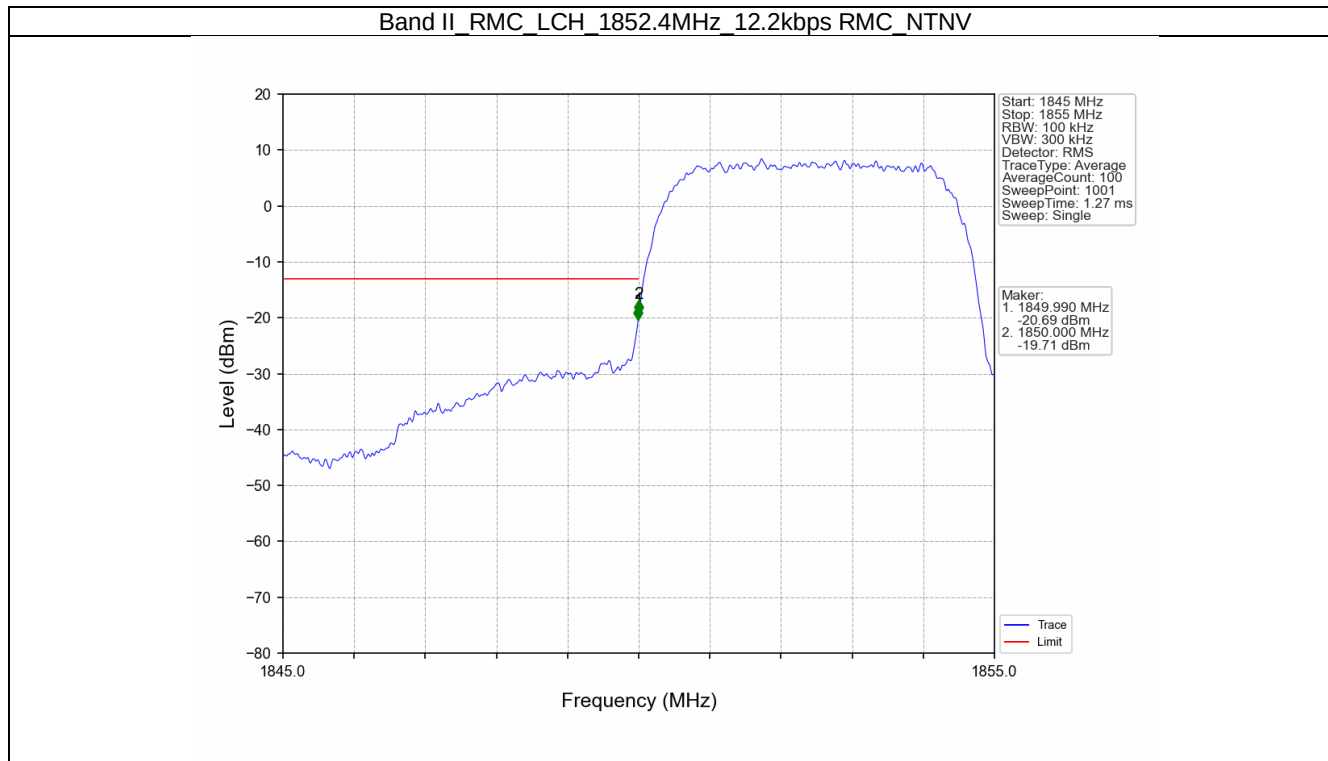
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5.1.2 Test Graph



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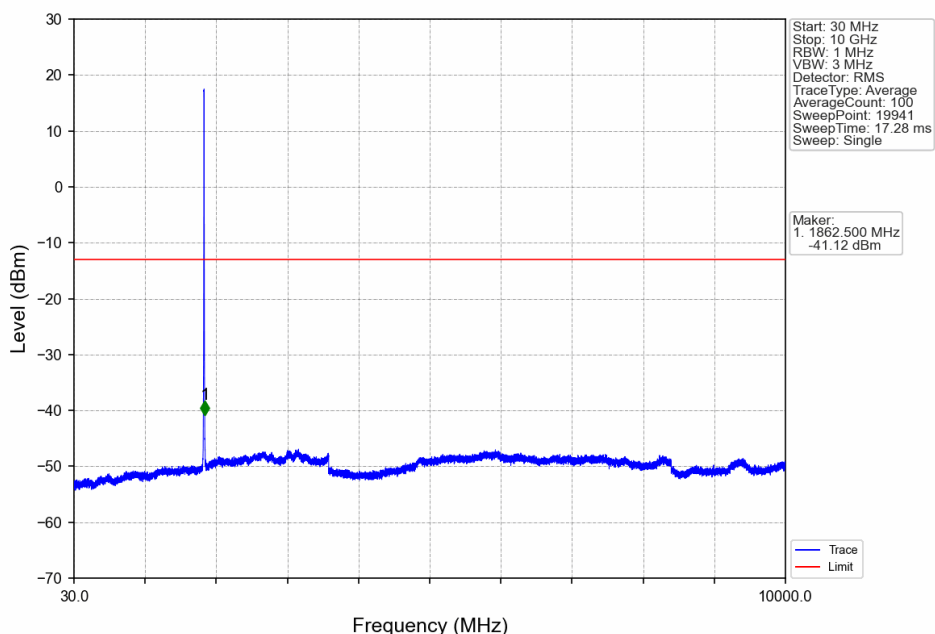
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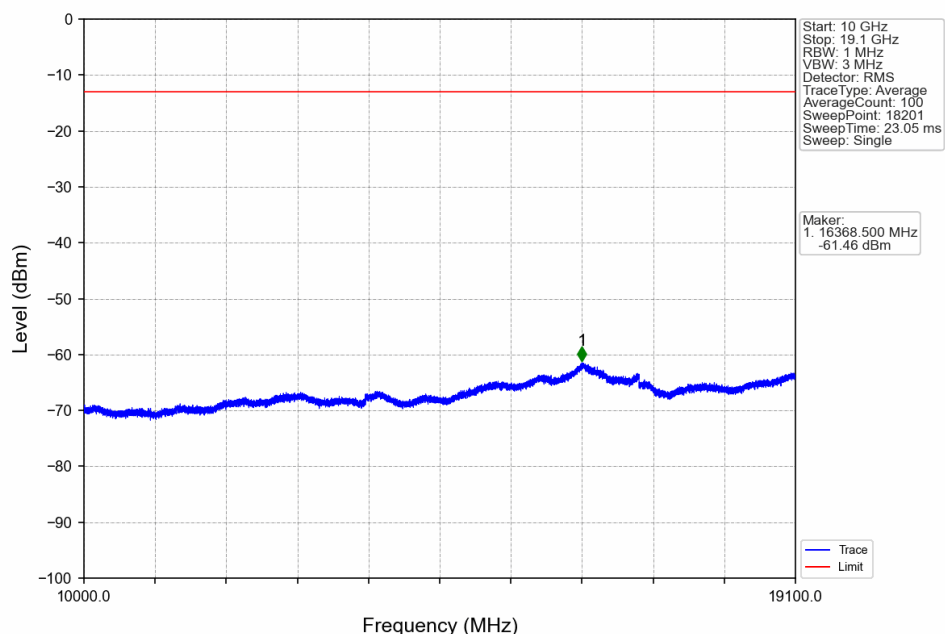
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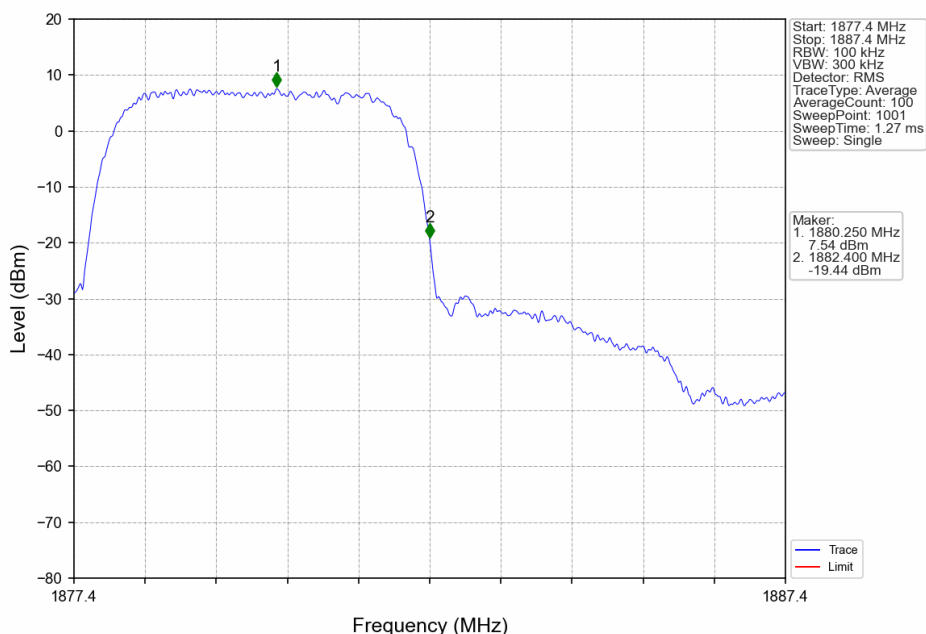
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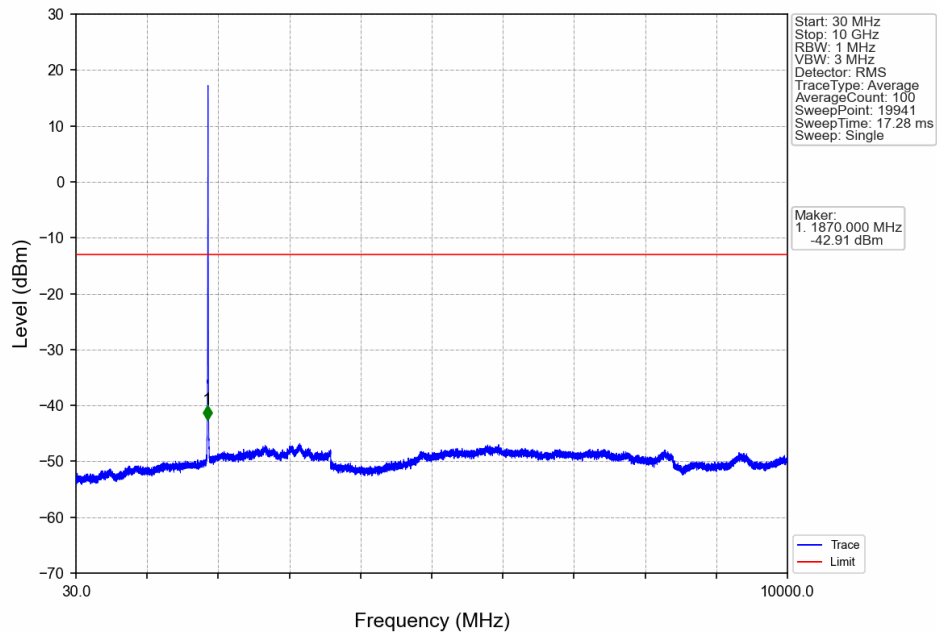
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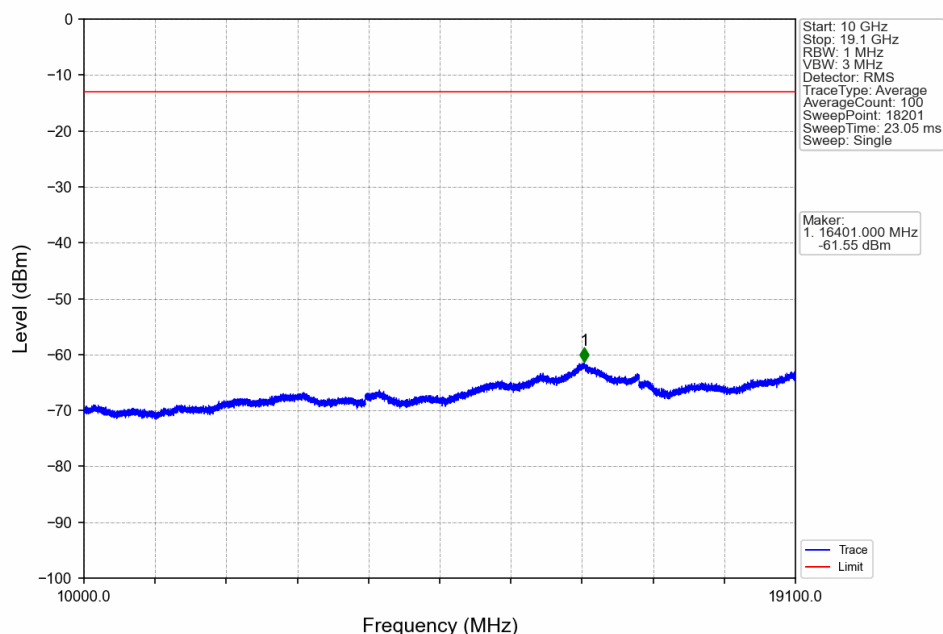
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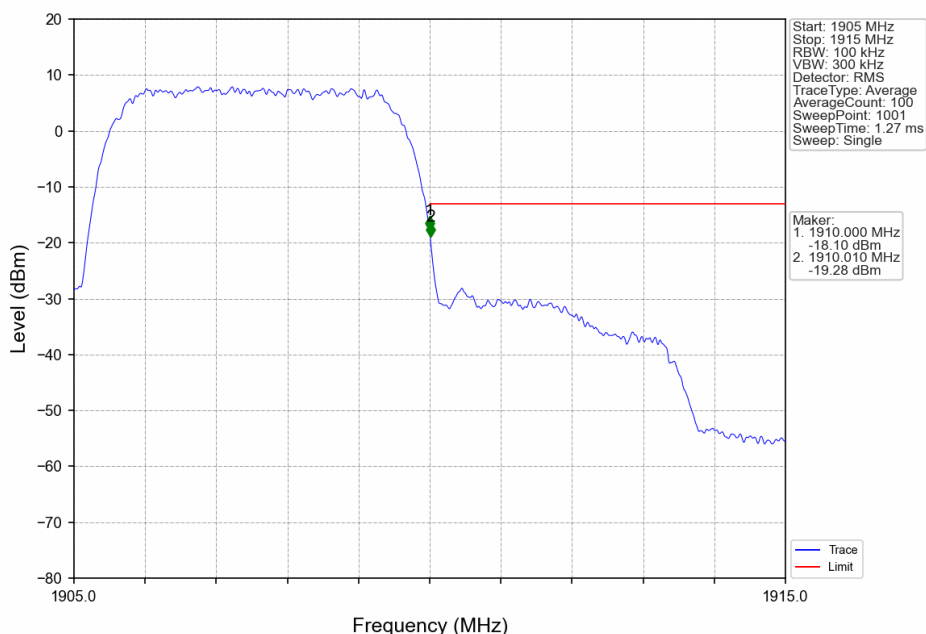
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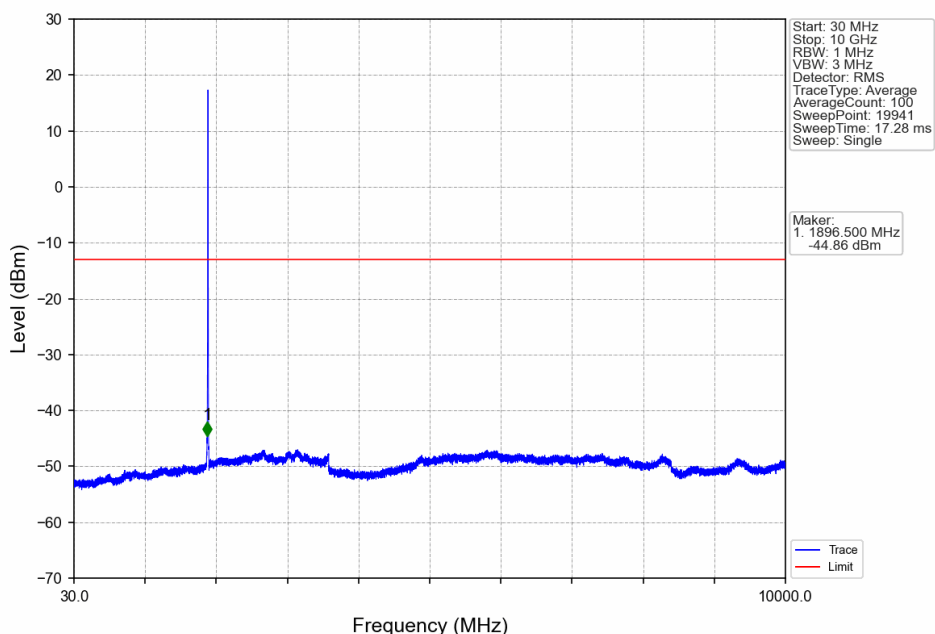
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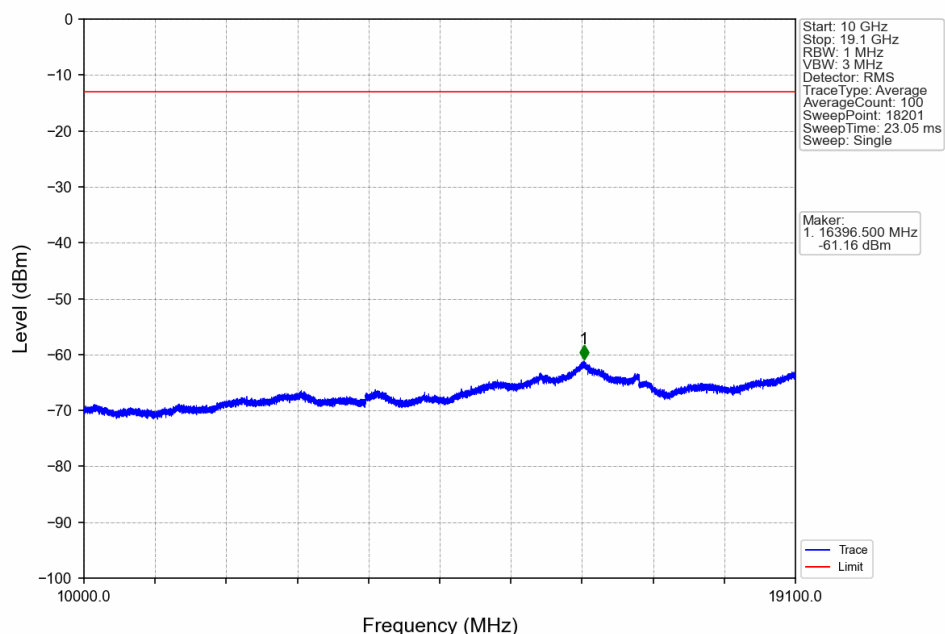
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6. Field Strength of Spurious Radiation

Test Band = WCDMA Band II_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	37.93	-43.00	30.30	-70.04	-13.00	57.04	Horizontal
2	5557.2	36.93	-40.67	33.30	-65.71	-13.00	52.71	Horizontal
3	7409.6	34.23	-37.88	36.49	-62.42	-13.00	49.42	Horizontal
4	9262	29.77	-34.26	37.68	-62.07	-13.00	49.07	Horizontal
5	11114.4	28.78	-30.26	38.40	-58.34	-13.00	45.34	Horizontal
6	12966.8	30.04	-29.67	39.56	-55.32	-13.00	42.32	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8	36.57	-43.00	30.30	-71.40	-13.00	58.40	Vertical
2	5557.2	35.44	-40.67	33.30	-67.20	-13.00	54.20	Vertical
3	7409.6	33.35	-37.88	36.49	-63.30	-13.00	50.30	Vertical
4	9262	30.12	-34.26	37.68	-61.72	-13.00	48.72	Vertical
5	11114.4	28.34	-30.26	38.40	-58.78	-13.00	45.78	Vertical
6	12966.8	29.89	-29.67	39.56	-55.47	-13.00	42.47	Vertical



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Test Band = WCDMA Band II_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	37.51	-42.94	30.49	-70.21	-13.00	57.21	Horizontal
2	5640	35.25	-40.63	33.58	-67.06	-13.00	54.06	Horizontal
3	7520	33.96	-37.77	36.62	-62.45	-13.00	49.45	Horizontal
4	9400	31.22	-33.75	37.72	-60.07	-13.00	47.07	Horizontal
5	11280	29.13	-30.09	38.40	-57.82	-13.00	44.82	Horizontal
6	13160	28.29	-29.29	39.71	-56.55	-13.00	43.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	36.37	-42.94	30.49	-71.35	-13.00	58.35	Vertical
2	5640	34.87	-40.63	33.58	-67.44	-13.00	54.44	Vertical
3	7520	32.98	-37.77	36.62	-63.43	-13.00	50.43	Vertical
4	9400	30.98	-33.75	37.72	-60.31	-13.00	47.31	Vertical
5	11280	28.84	-30.09	38.40	-58.11	-13.00	45.11	Vertical
6	13160	28.49	-29.29	39.71	-56.35	-13.00	43.35	Vertical



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Test Band = WCDMA Band II_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2	37.22	-42.89	30.67	-70.26	-13.00	57.26	Horizontal
2	5722.8	35.07	-40.44	33.86	-66.77	-13.00	53.77	Horizontal
3	7630	32.79	-37.60	36.73	-63.34	-13.00	50.34	Horizontal
4	9538	32.51	-33.73	37.76	-58.72	-13.00	45.72	Horizontal
5	11445.6	28.53	-30.19	38.40	-58.52	-13.00	45.52	Horizontal
6	13353.2	28.66	-29.74	39.85	-56.49	-13.00	43.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2	36.62	-42.89	30.67	-70.86	-13.00	57.86	Vertical
2	5722.8	34.53	-40.44	33.86	-67.31	-13.00	54.31	Vertical
3	7630	33.10	-37.60	36.73	-63.03	-13.00	50.03	Vertical
4	9538	32.24	-33.73	37.76	-58.99	-13.00	45.99	Vertical
5	11445.6	28.35	-30.19	38.40	-58.70	-13.00	45.70	Vertical
6	13353.2	28.32	-29.74	39.85	-56.83	-13.00	43.83	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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