



Report No.: SEWA2310000127RG01

Rev.: 01

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# Appendix B.3

## WCDMA Band II



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# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 Test Result

ANT1

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	23.22	25.15	33	PASS
Band II	9400	23.32	25.25	33	PASS
Band II	9538	23.22	25.15	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	3.8	1.211	0.0007	-2.5 to 2.5	Pass
			4.0	-3.929	-0.0021	-2.5 to 2.5	Pass
			4.2	-6.112	-0.0033	-2.5 to 2.5	Pass
		-30	4.0	-5.181	-0.0028	-2.5 to 2.5	Pass
		-20	4.0	-5.304	-0.0029	-2.5 to 2.5	Pass
		-10	4.0	-3.967	-0.0021	-2.5 to 2.5	Pass
		0	4.0	-3.111	-0.0017	-2.5 to 2.5	Pass
		10	4.0	-3.975	-0.0021	-2.5 to 2.5	Pass
		30	4.0	-5.727	-0.0031	-2.5 to 2.5	Pass
		40	4.0	-1.784	-0.0010	-2.5 to 2.5	Pass
	50	4.0	-0.469	-0.0003	-2.5 to 2.5	Pass	
	1880	20	3.8	-2.253	-0.0012	-2.5 to 2.5	Pass
			4.0	-2.758	-0.0015	-2.5 to 2.5	Pass
			4.2	-1.066	-0.0006	-2.5 to 2.5	Pass
		-30	4.0	-0.689	-0.0004	-2.5 to 2.5	Pass
		-20	4.0	-1.104	-0.0006	-2.5 to 2.5	Pass
		-10	4.0	-0.385	-0.0002	-2.5 to 2.5	Pass
		0	4.0	-1.501	-0.0008	-2.5 to 2.5	Pass
		10	4.0	-0.620	-0.0003	-2.5 to 2.5	Pass
		30	4.0	0.428	0.0002	-2.5 to 2.5	Pass
		40	4.0	-2.518	-0.0013	-2.5 to 2.5	Pass
	50	4.0	0.074	0.0000	-2.5 to 2.5	Pass	
	1907.6	20	3.8	0.084	0.0000	-2.5 to 2.5	Pass
			4.0	0.152	0.0001	-2.5 to 2.5	Pass
			4.2	-1.328	-0.0007	-2.5 to 2.5	Pass
		-30	4.0	0.095	0.0000	-2.5 to 2.5	Pass
		-20	4.0	-0.585	-0.0003	-2.5 to 2.5	Pass
		-10	4.0	0.722	0.0004	-2.5 to 2.5	Pass
		0	4.0	-0.473	-0.0002	-2.5 to 2.5	Pass
		10	4.0	-1.736	-0.0009	-2.5 to 2.5	Pass
30		4.0	0.108	0.0001	-2.5 to 2.5	Pass	
40		4.0	-0.571	-0.0003	-2.5 to 2.5	Pass	
50	4.0	0.676	0.0004	-2.5 to 2.5	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	4.163	/	Pass
			1880	4.172	/	Pass
			1907.6	4.160	/	Pass

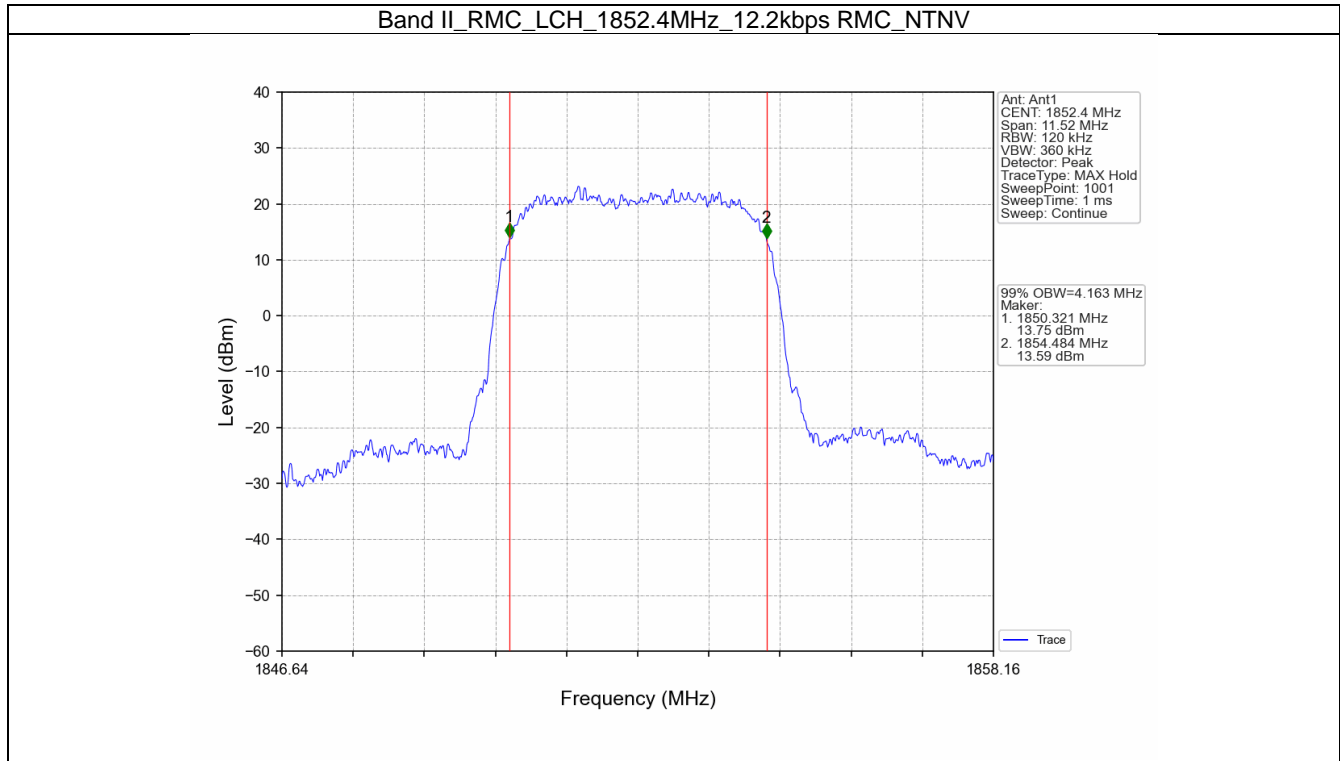


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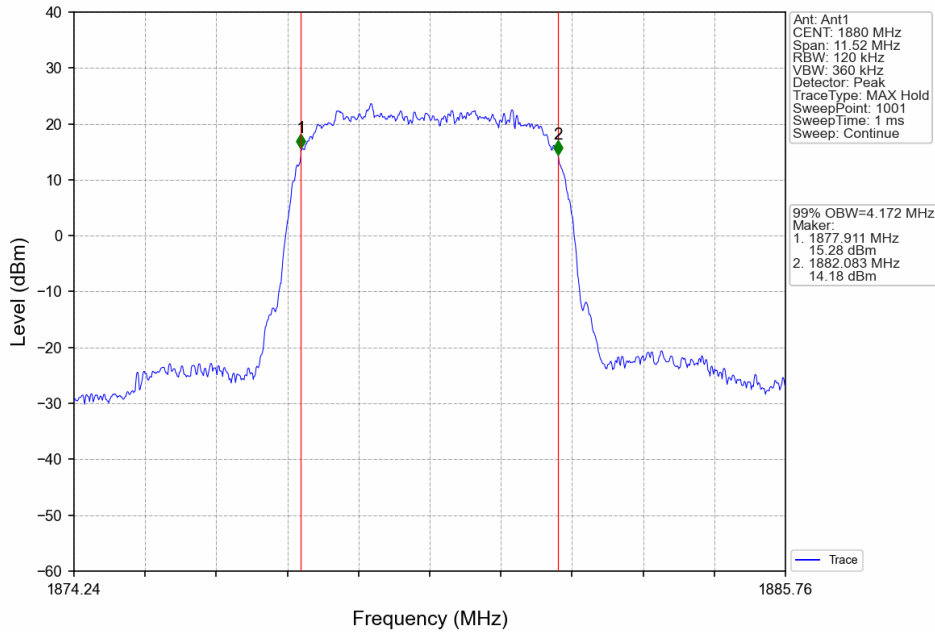
3.1.2 Test Graph



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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



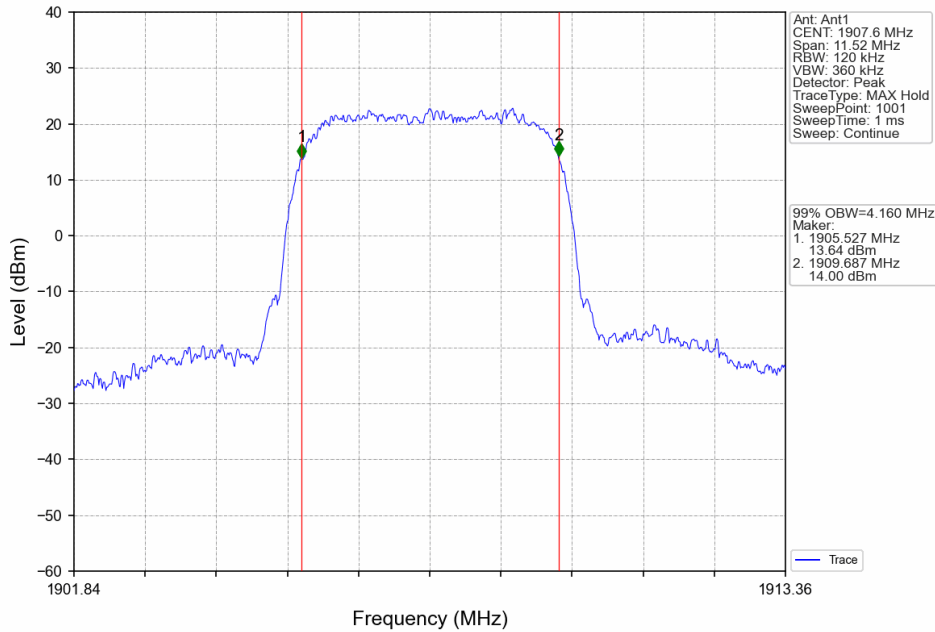
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Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



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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	4.734	/	Pass
			1880	4.727	/	Pass
			1907.6	4.737	/	Pass



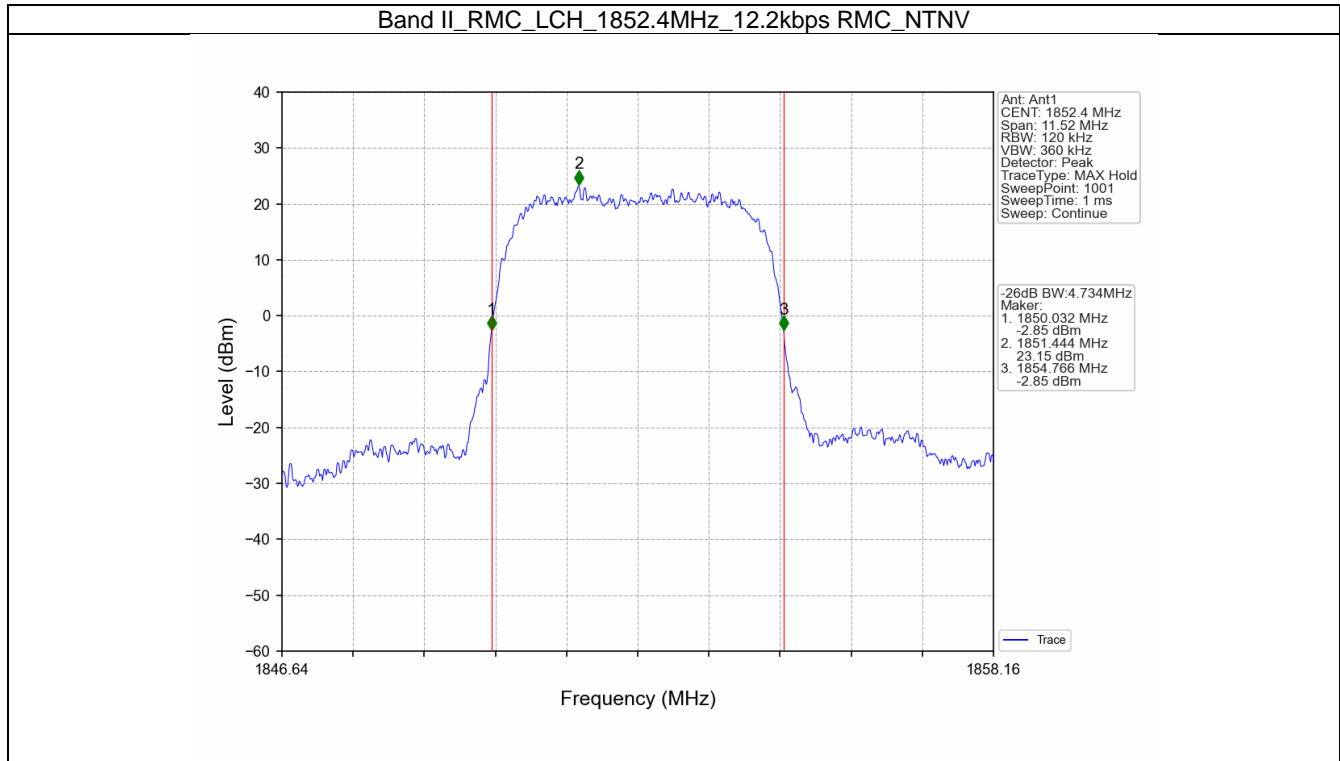
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3.2.2 Test Graph

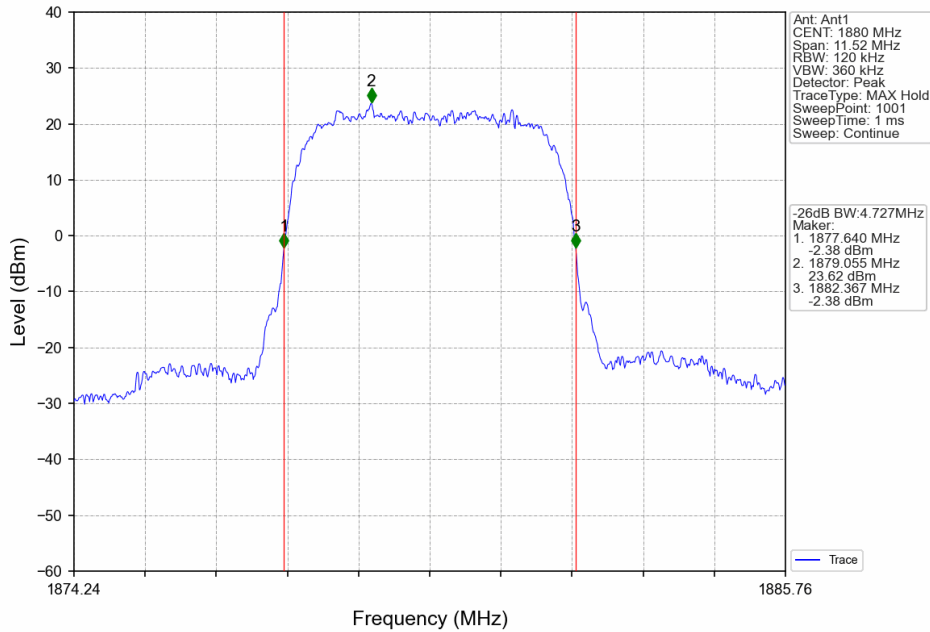


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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV

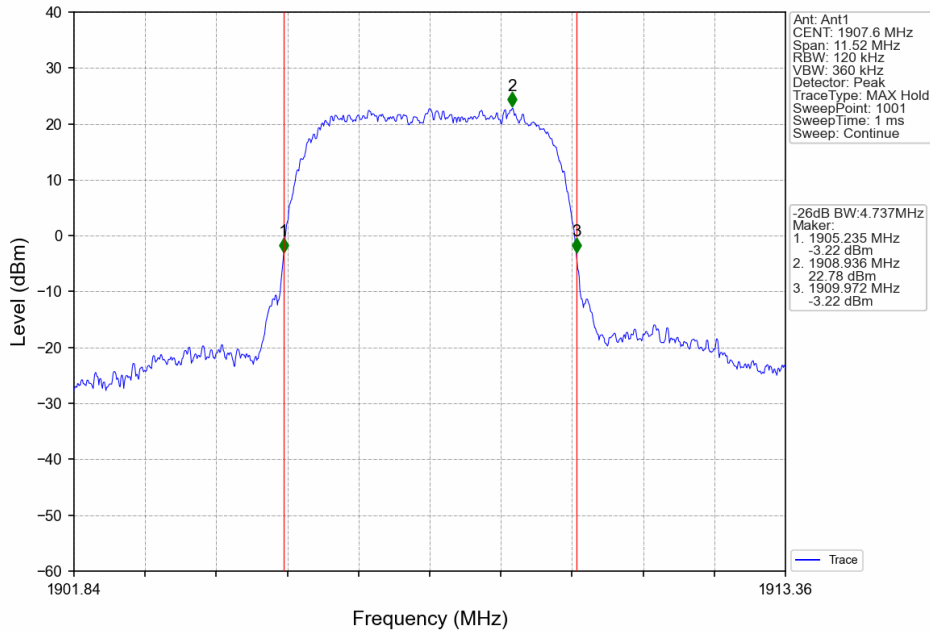


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Band II\_RMC\_HCH\_1907.6MHz\_12.2kbps RMC\_NTNV



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### 4. Peak-Average Ratio

#### 4.1 Band II

##### 4.1.1 Test Result

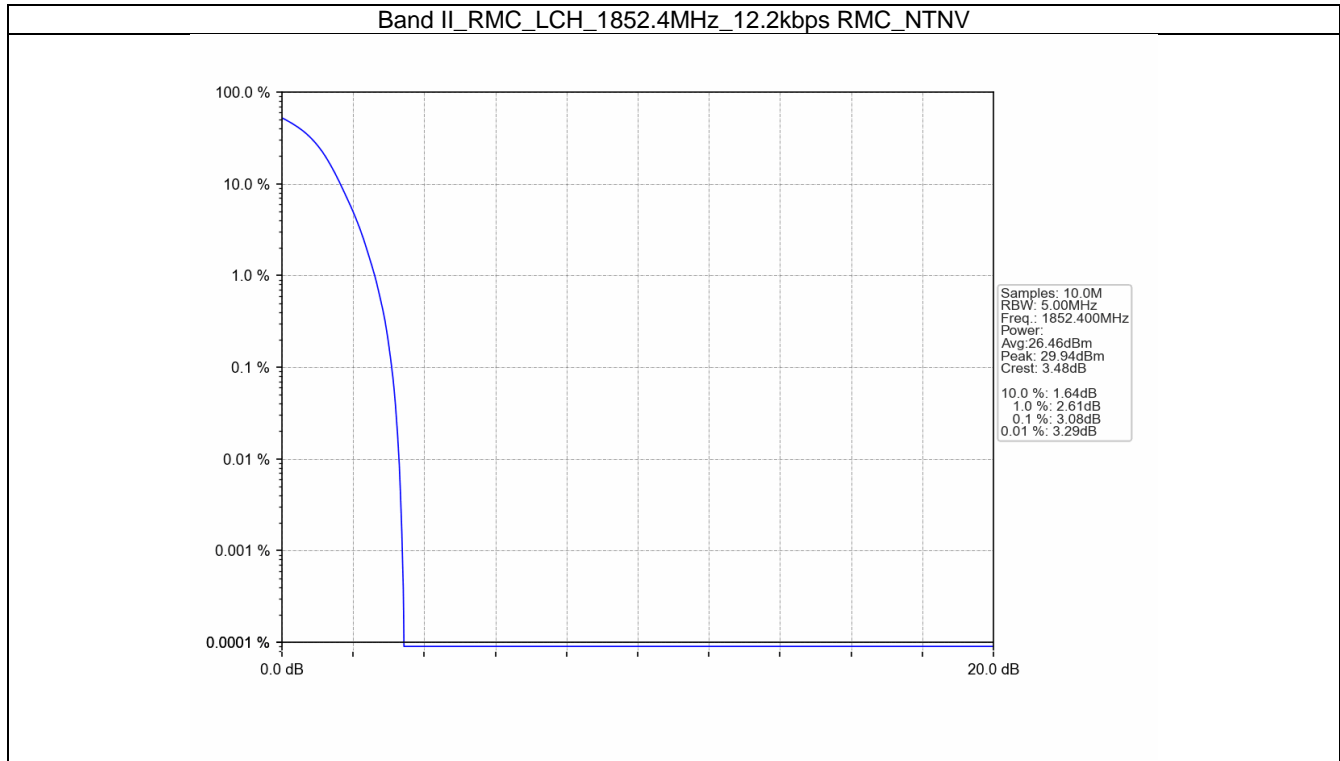
Band II						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1852.4	3.08	<=13	Pass
			1880	3.09	<=13	Pass
			1907.6	3.07	<=13	Pass



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4.1.2 Test Graph



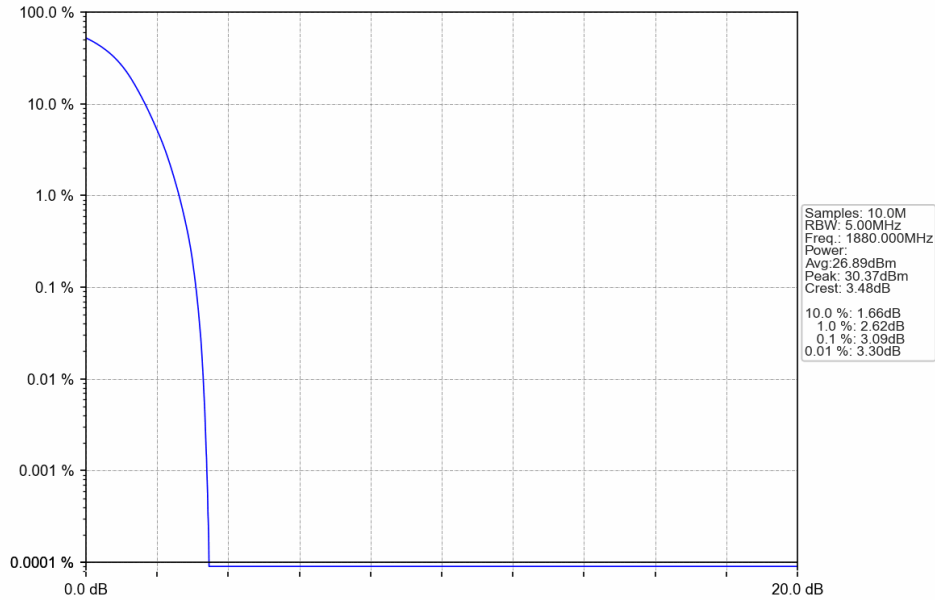
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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



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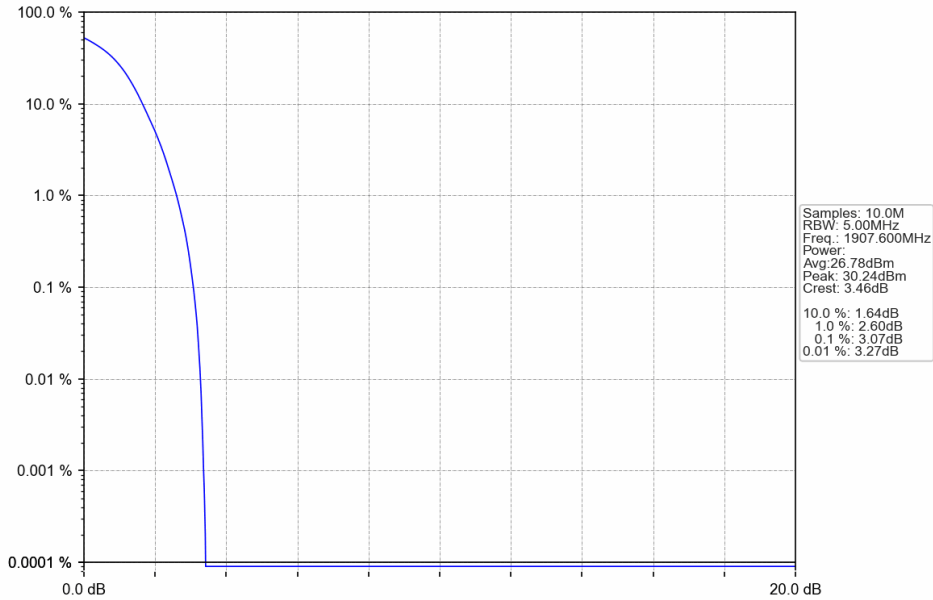
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### 5. Spurious Emission & Band Edges

#### 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	

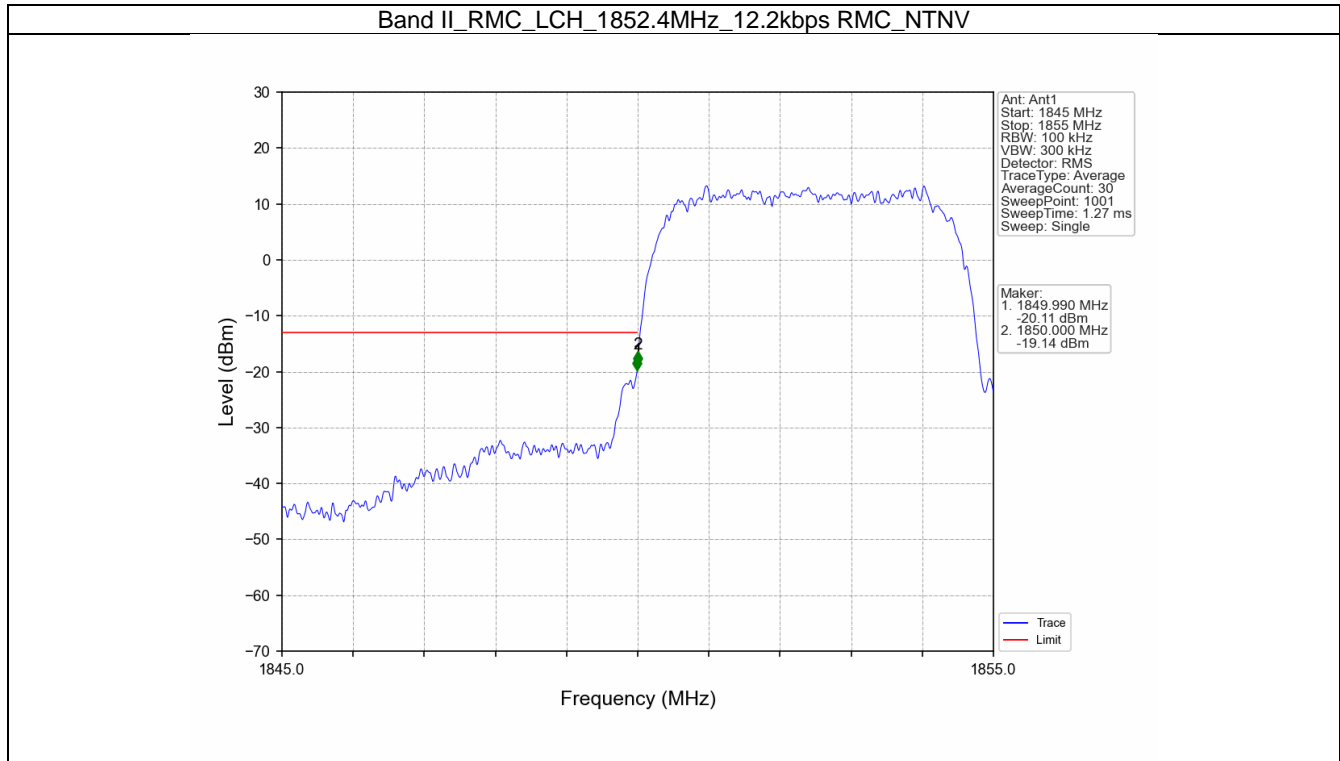


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5.1.2 Test Graph



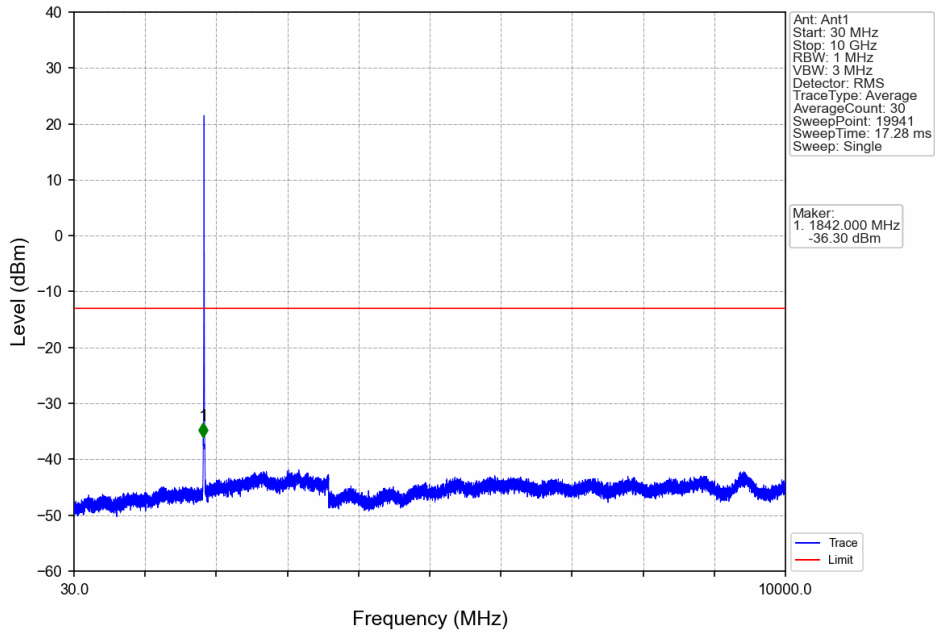
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Band II\_RMC\_LCH\_1852.4MHz\_12.2kbps RMC\_NTNV



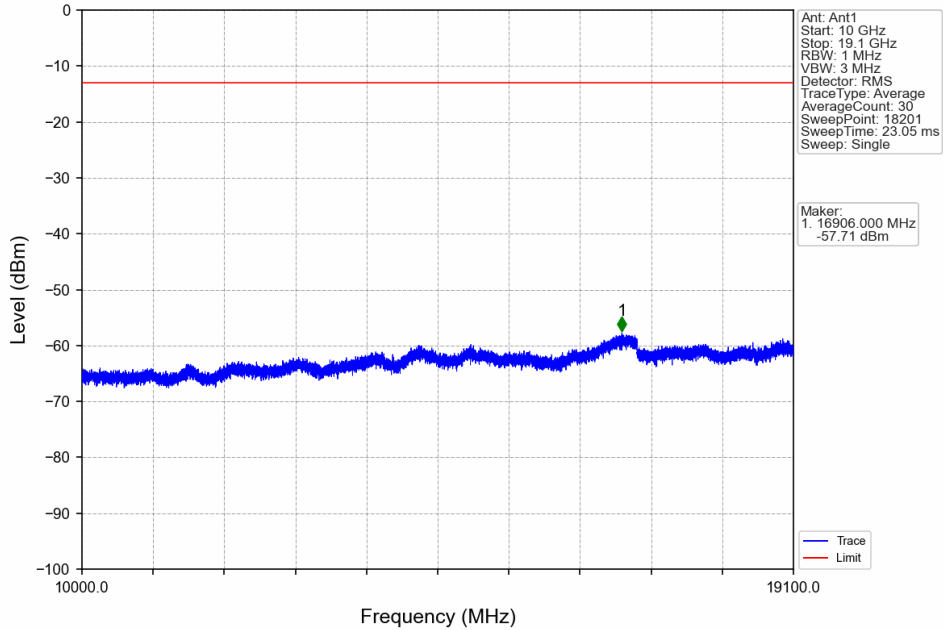
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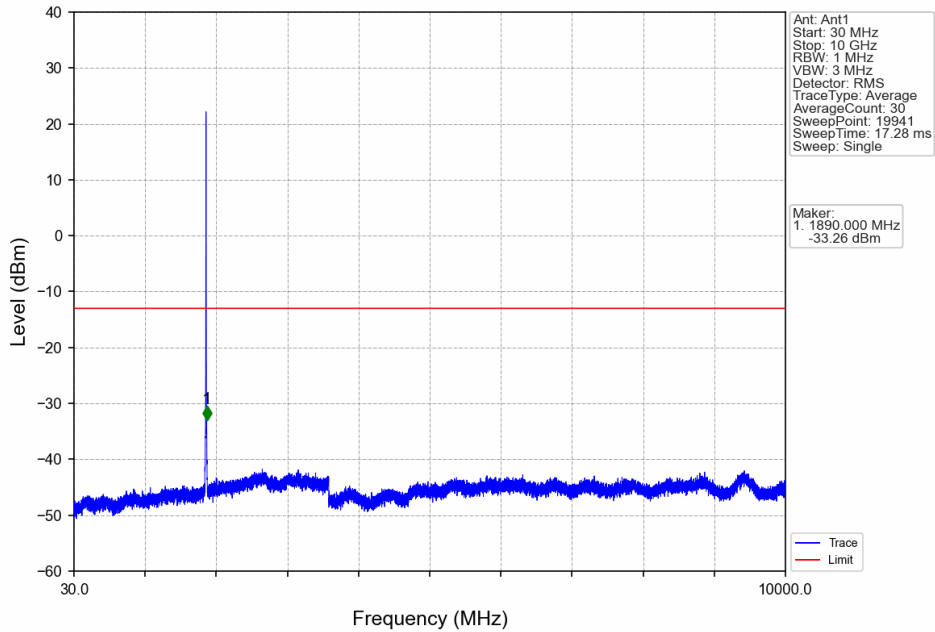
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Band II\_RMC\_MCH\_1880MHz\_12.2kbps RMC\_NTNV



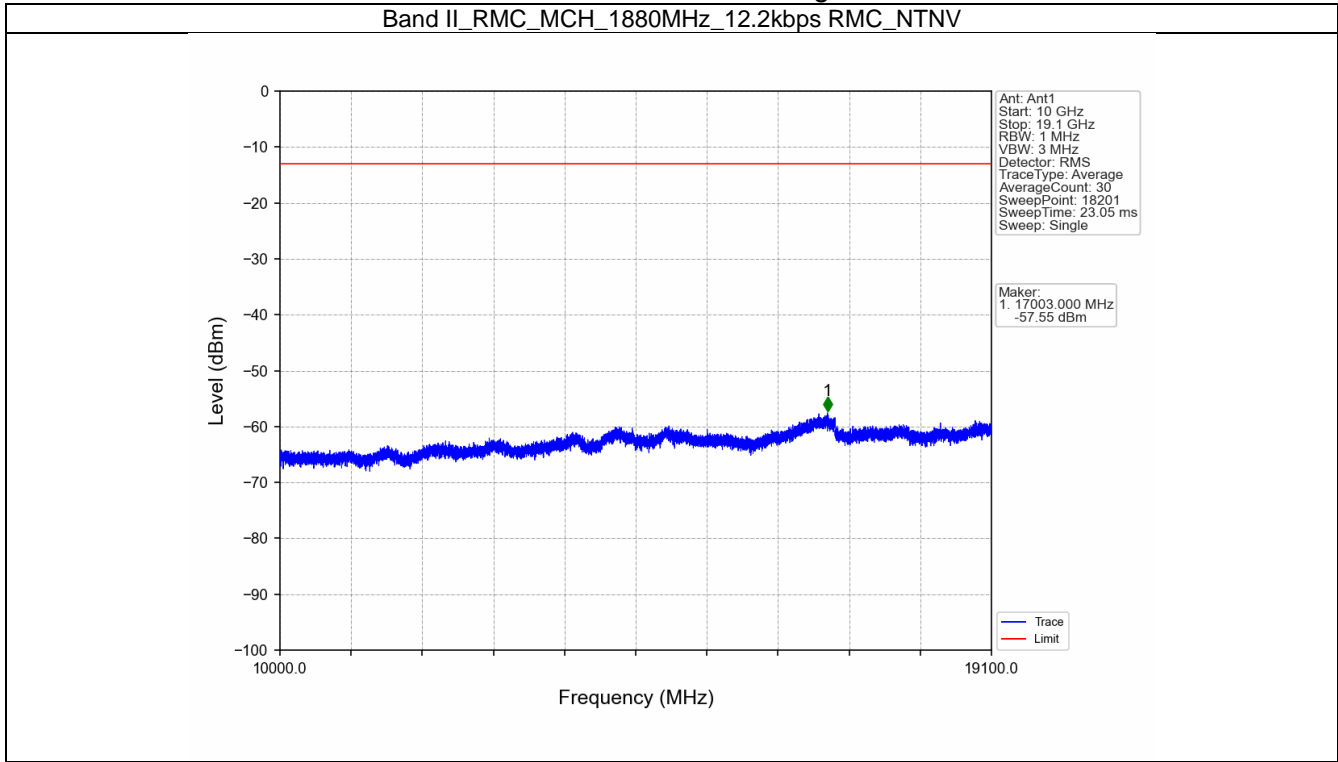
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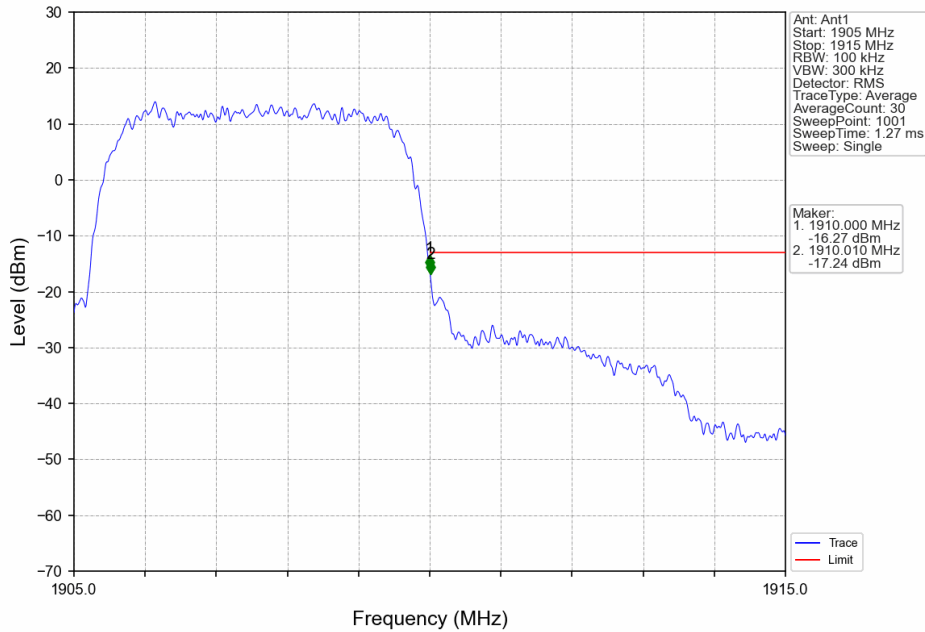


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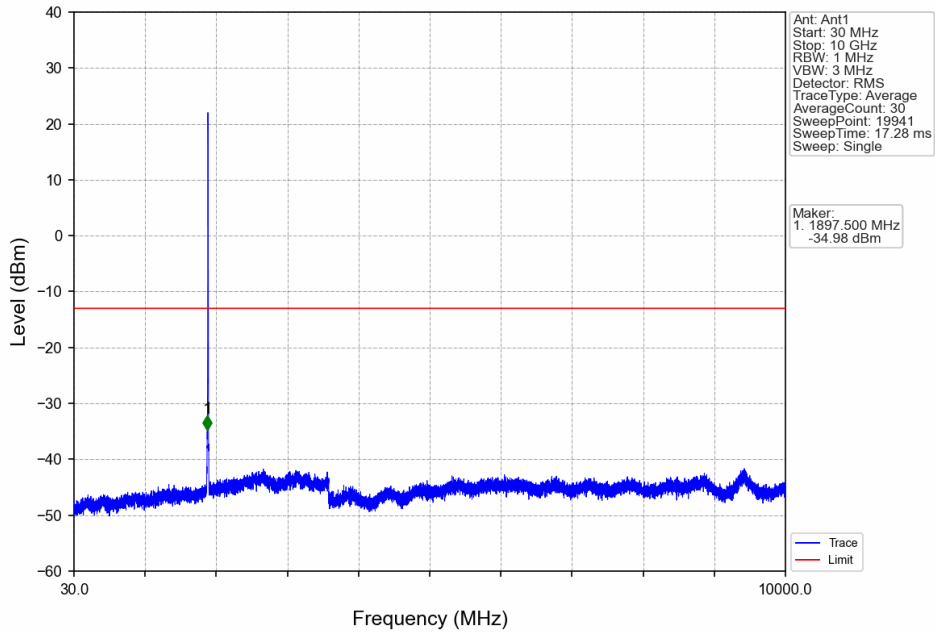
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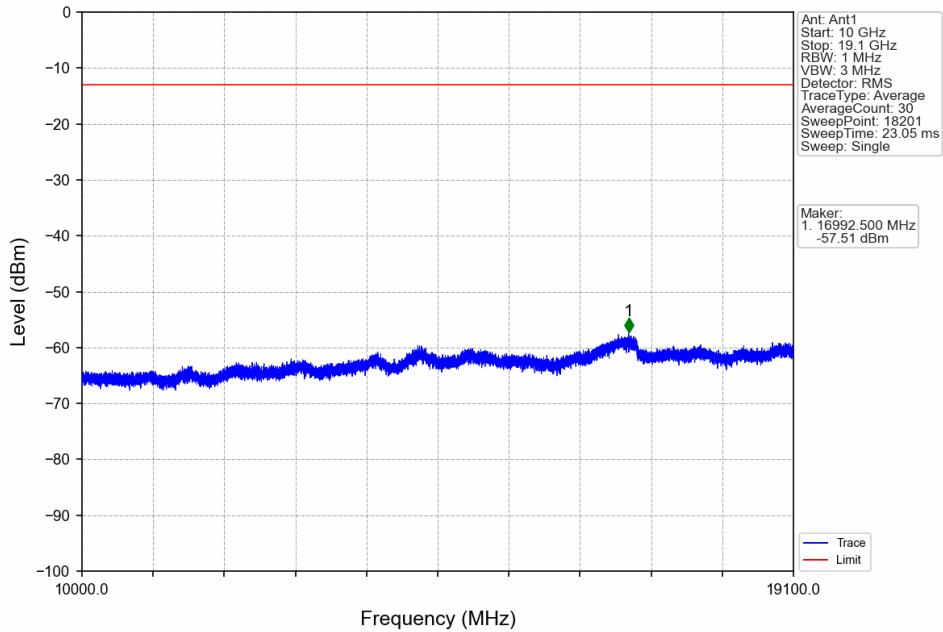
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6. Field Strength of Spurious Radiation

Test Band = WCDMA Band II\_ TM1

Test Channel = Low

Table with 9 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of data.

Table with 9 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of data.



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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	3760.0000	41.01	-45.75	28.86	-71.14	-13.00	58.14	Horizontal
2	5640.0000	39.41	-44.98	32.63	-68.20	-13.00	55.20	Horizontal
3	7520.0000	37.02	-43.10	36.61	-64.73	-13.00	51.73	Horizontal
4	9400.0000	33.98	-39.83	37.06	-64.05	-13.00	51.05	Horizontal
5	11280.0000	30.19	-37.41	38.73	-63.76	-13.00	50.76	Horizontal
6	13700.25	30.81	-36.16	40.36	-60.25	-13.00	47.25	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	39.55	-45.75	28.86	-72.60	-13.00	59.60	Vertical
2	5640.0000	39.16	-44.98	32.63	-68.45	-13.00	55.45	Vertical
3	7520.0000	37.07	-43.10	36.61	-64.68	-13.00	51.68	Vertical
4	9400.0000	34.70	-39.83	37.06	-63.33	-13.00	50.33	Vertical
5	11280.0000	30.65	-37.41	38.73	-63.30	-13.00	50.30	Vertical
6	13727.25	30.30	-36.23	40.41	-60.78	-13.00	47.78	Vertical



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**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	3815.2000	41.07	-45.97	28.92	-71.25	-13.00	58.25	Horizontal
2	5722.8000	38.94	-44.83	32.64	-68.50	-13.00	55.50	Horizontal
3	7630.0000	37.43	-42.99	36.65	-64.17	-13.00	51.17	Horizontal
4	9538.0000	33.05	-40.01	37.32	-64.90	-13.00	51.90	Horizontal
5	11445.6000	29.72	-37.34	38.74	-64.14	-13.00	51.14	Horizontal
6	13841.25	29.89	-36.01	40.61	-60.76	-13.00	47.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	40.57	-45.97	28.92	-71.75	-13.00	58.75	Vertical
2	5722.8000	38.98	-44.83	32.64	-68.46	-13.00	55.46	Vertical
3	7630.0000	37.62	-42.99	36.65	-63.98	-13.00	50.98	Vertical
4	9538.0000	33.52	-40.01	37.32	-64.43	-13.00	51.43	Vertical
5	11445.6000	30.75	-37.34	38.74	-63.11	-13.00	50.11	Vertical
6	13695.75	30.10	-36.16	40.35	-60.96	-13.00	47.96	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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