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Appendix B.4

WCDMA Band IV



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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 IV	1312	23.2	25.13	30	PASS
Band IV	1413	23.47	25.4	30	PASS
Band IV	1513	23.15	25.08	30	PASS



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2. Frequency Stability

2.1 Band IV

2.1.1 Test Result

				Band IV				
Network	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. R	ated (ppm)	Verdict	
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	verdict	
			3.8	4.685	0.0027	-2.5 to 2.5	Pass	
		20	4.0	5.018	0.0029	-2.5 to 2.5	Pass	
			4.2	5.245	0.0031	-2.5 to 2.5	Pass	
		-30	4.0	4.713	0.0028	-2.5 to 2.5	Pass	
		-20	4.0	4.300	0.0025	-2.5 to 2.5	Pass	
	1712.4	-10	4.0	4.050	0.0024	-2.5 to 2.5	Pass	
		0	4.0	4.045	0.0024	-2.5 to 2.5	Pass	
		10	4.0	4.141	0.0024	-2.5 to 2.5	Pass	
		30	4.0	4.297	0.0025	-2.5 to 2.5	Pass	
		40	4.0	4.075	0.0024	-2.5 to 2.5	Pass	
		50	4.0	4.979	0.0029	-2.5 to 2.5	Pass	
			3.8	-3.312	-0.0019	-2.5 to 2.5	Pass	
	MC 1732.6	20	4.0	-3.398	-0.0020	-2.5 to 2.5	Pass	
			4.2	-3.446	-0.0020	-2.5 to 2.5	Pass	
		-30	4.0	-3.928	-0.0023	-2.5 to 2.5	Pass	
		-20	4.0	-3.229	-0.0019	-2.5 to 2.5	Pass	
RMC		RMC 1732.6	-10	4.0	-3.942	-0.0023	-2.5 to 2.5	Pass
			0	4.0	-3.661	-0.0021	-2.5 to 2.5	Pass
		10	4.0	-3.871	-0.0022	-2.5 to 2.5	Pass	
		30	4.0	-3.198	-0.0018	-2.5 to 2.5	Pass	
		40	4.0	-3.519	-0.0020	-2.5 to 2.5	Pass	
		50	4.0	-3.546	-0.0020	-2.5 to 2.5	Pass	
			3.8	-4.201	-0.0024	-2.5 to 2.5	Pass	
		20	4.0	-4.707	-0.0027	-2.5 to 2.5	Pass	
			4.2	-4.606	-0.0026	-2.5 to 2.5	Pass	
		-30	4.0	-4.886	-0.0028	-2.5 to 2.5	Pass	
		-20	4.0	-4.623	-0.0026	-2.5 to 2.5	Pass	
	1752.6	-10	4.0	-4.736	-0.0027	-2.5 to 2.5	Pass	
		0	4.0	-5.155	-0.0029	-2.5 to 2.5	Pass	
		10	4.0	-4.965	-0.0028	-2.5 to 2.5	Pass	
		30	4.0	-4.914	-0.0028	-2.5 to 2.5	Pass	
		40	4.0	-5.158	-0.0029	-2.5 to 2.5	Pass	
		50	4.0	-5.267	-0.0030	-2.5 to 2.5	Pass	



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3. 99% & 26dB Bandwidth

3.1 Band IV_OBW

3.1.1 Test Result

	Band IV										
ENV		Mode	Frequency	99% Occupied E	Bandwidth (MHz)	Verdict					
EINV	Network	Subset	(MHz)	Result	Limit	verdict					
			1712.4	4.167	/	Pass					
NTNV	RMC	12.2kbps RMC	1732.6	4.177	/	Pass					
			1752.6	4.166	/	Pass					



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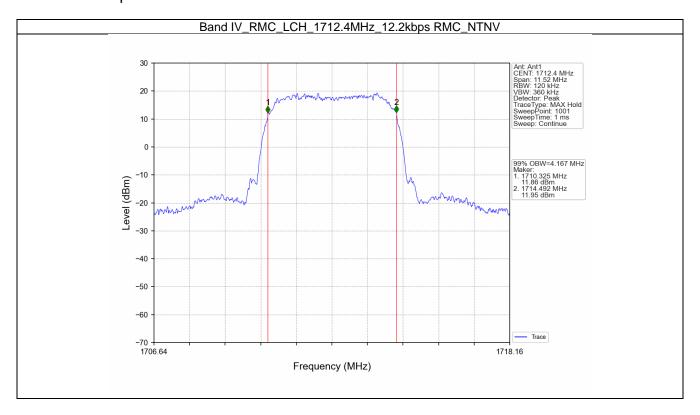
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3.1.2 Test Graph





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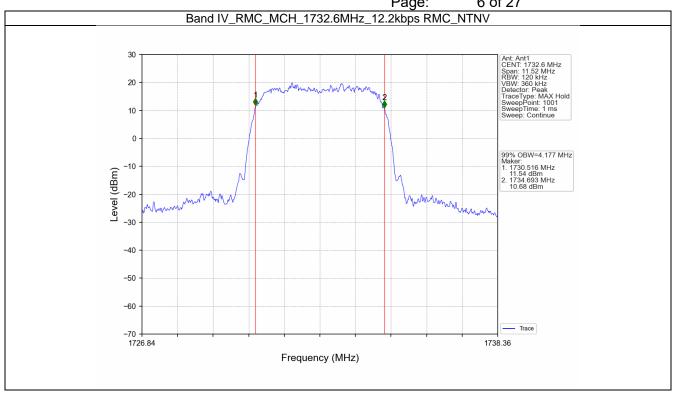
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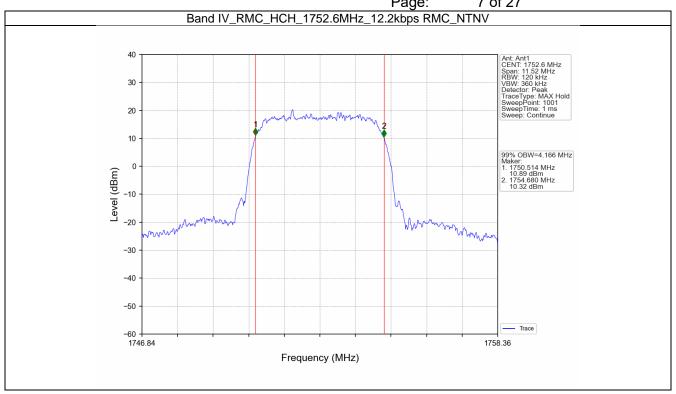
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3.2 Band IV_XDB

3.2.1 Test Result

	Band IV										
ENV		Mode	Mode Frequency 26dB Bandwidth (Mi								
EINV	Network	Subset	(MHz)	Result	Limit	Verdict					
			1712.4	4.741	/	Pass					
NTNV	RMC	12.2kbps RMC	1732.6	4.741	/	Pass					
			1752.6	4.716	/	Pass					



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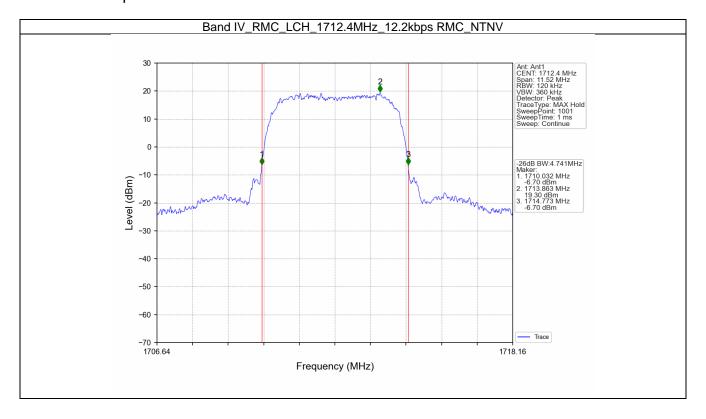
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3.2.2 Test Graph





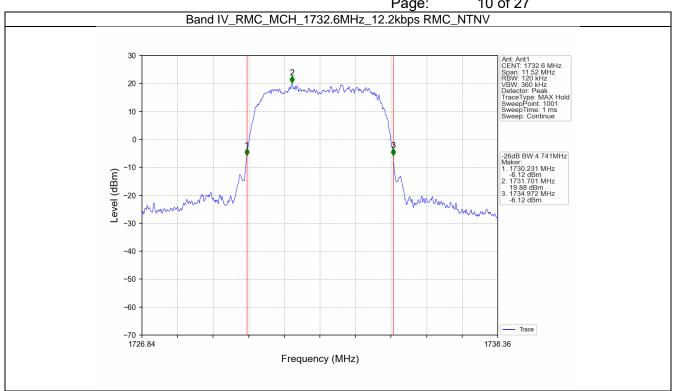
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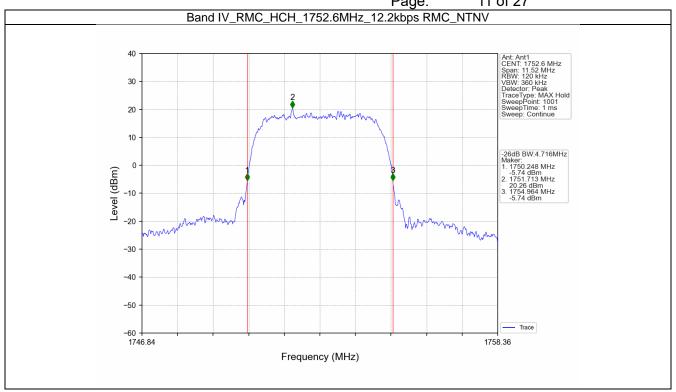
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4. Peak-Average Ratio

4.1 Band IV

4.1.1 Test Result

	Band IV										
ENV		Mode Frequency Peak-Avera		Peak-Averag	ge Ratio (dB)	Verdict					
EINV	Network Subset		(MHz)	Result	Limit	verdict					
			1712.4	3.32	<=13	Pass					
NTNV	RMC	12.2kbps RMC	1732.6	3.04	<=13	Pass					
			1752.6	3.27	<=13	Pass					



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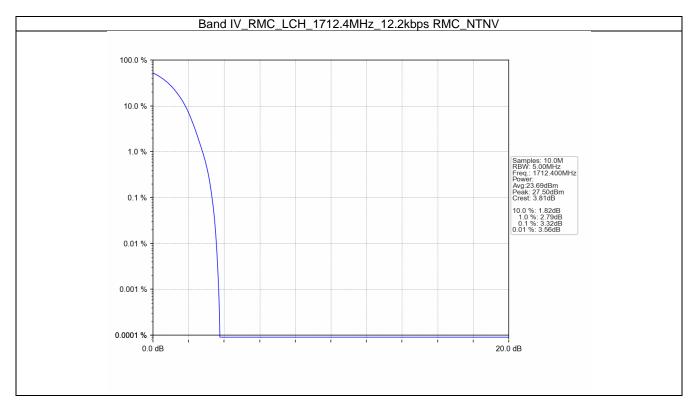




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4.1.2 Test Graph





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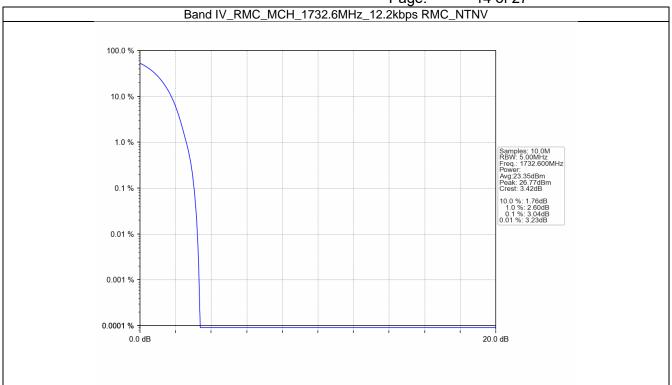
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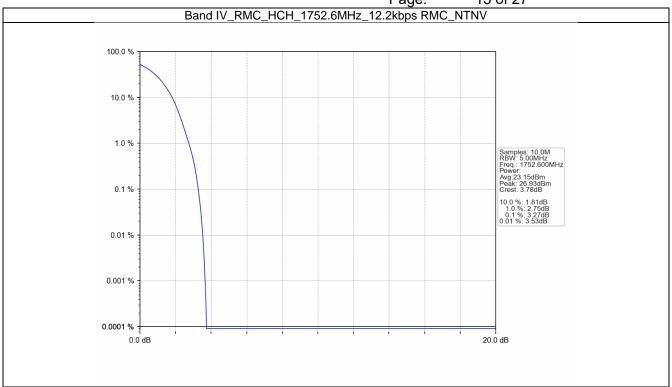
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5. Spurious Emission & Band Edges

5.1 Band IV

5.1.1 Test Result

				Band IV			
	ENV		Mode	Frequency	Spurious Emi	ssion	Verdict
	EINV	Network	Subset	(MHz)	Result	Limit	verdict
Г				1712.4	Refer To Test	Graph	Pass
	NTNV	RMC	12.2kbps RMC	1732.6	Refer To Test	Graph	Pass
				1752.6	Refer To Test	Graph	Pass



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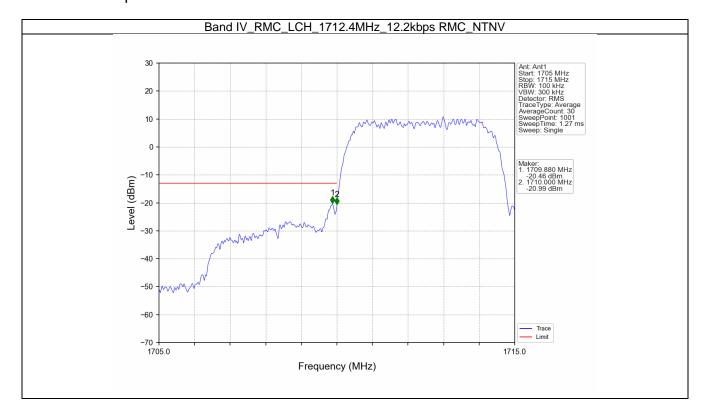




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5.1.2 Test Graph





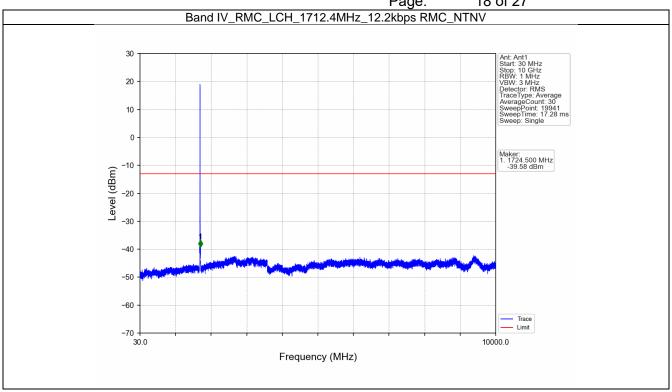
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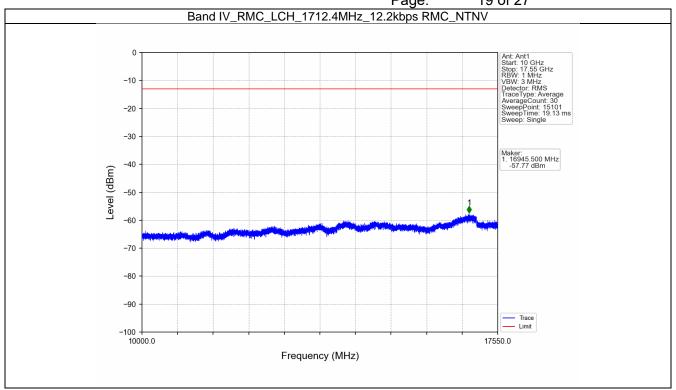
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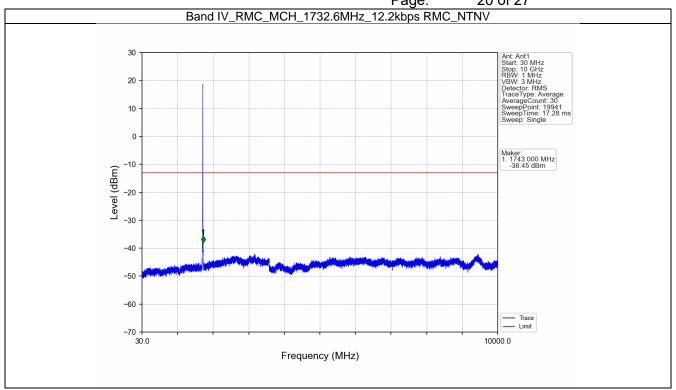
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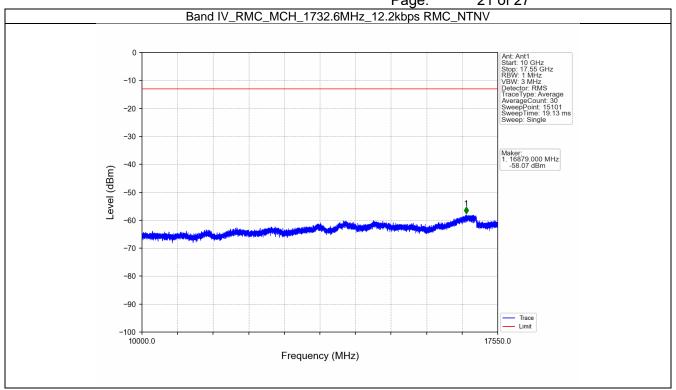
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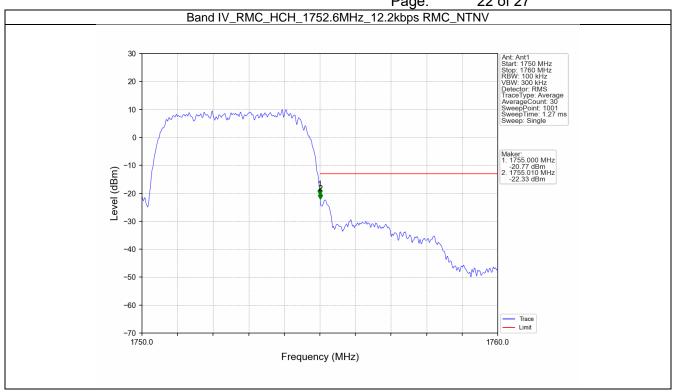
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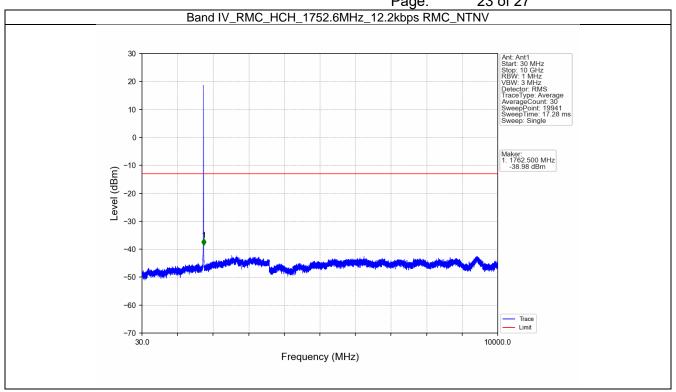
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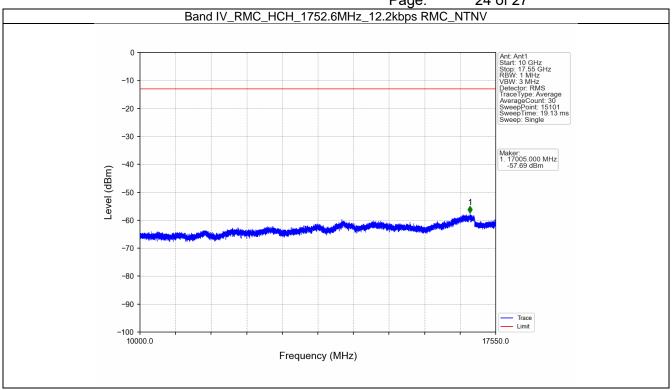
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6. Field Strength of Spurious Radiation

Test Band = WCDMA Band IV_ TM1 Test Channel = Low

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3424.8000	40.80	-46.27	28.56	-72.18	-13.00	59.18	Horizontal				
2	5137.2000	39.63	-45.34	31.73	-69.24	-13.00	56.24	Horizontal				
3	6849.6000	38.13	-44.14	34.93	-66.34	-13.00	53.34	Horizontal				
4	8562.0000	35.58	-41.44	36.52	-64.60	-13.00	51.60	Horizontal				
5	10274.4000	31.72	-39.19	38.34	-64.40	-13.00	51.40	Horizontal				
6	13776	30.88	-36.34	40.50	-60.23	-13.00	47.23	Horizontal				

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3424.8000	41.46	-46.27	28.56	-71.52	-13.00	58.52	Vertical				
2	5137.2000	38.88	-45.34	31.73	-69.99	-13.00	56.99	Vertical				
3	6849.6000	39.07	-44.14	34.93	-65.40	-13.00	52.40	Vertical				
4	8562.0000	35.32	-41.44	36.52	-64.86	-13.00	51.86	Vertical				
5	10274.4000	31.88	-39.19	38.34	-64.24	-13.00	51.24	Vertical				
6	13370.25	29.93	-36.48	39.77	-62.04	-13.00	49.04	Vertical				



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Test Band = WCDMA Band IV_ TM1 Test Channel = Mid

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3465.2000	41.18	-46.27	28.58	-71.77	-13.00	58.77	Horizontal				
2	5197.8000	39.41	-45.28	31.88	-69.26	-13.00	56.26	Horizontal				
3	6930.4000	38.77	-43.93	35.08	-65.35	-13.00	52.35	Horizontal				
4	8663.0000	35.54	-41.56	36.47	-64.81	-13.00	51.81	Horizontal				
5	10395.6000	31.77	-39.01	38.40	-64.11	-13.00	51.11	Horizontal				
6	14285.25	29.50	-36.03	41.01	-60.78	-13.00	47.78	Horizontal				

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3465.2000	41.27	-46.27	28.58	-71.68	-13.00	58.68	Vertical				
2	5197.8000	39.35	-45.28	31.88	-69.32	-13.00	56.32	Vertical				
3	6930.4000	38.33	-43.93	35.08	-65.79	-13.00	52.79	Vertical				
4	8663.0000	35.60	-41.56	36.47	-64.75	-13.00	51.75	Vertical				
5	10395.6000	31.62	-39.01	38.40	-64.26	-13.00	51.26	Vertical				
6	13849.5	29.66	-35.93	40.63	-60.90	-13.00	47.90	Vertical				



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Test Band = WCDMA Band IV_ TM1 Test Channel = High

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3505.2000	41.49	-46.25	28.61	-71.42	-13.00	58.42	Horizontal				
2	5257.8000	39.05	-45.17	32.02	-69.36	-13.00	56.36	Horizontal				
3	7010.4000	38.09	-43.62	35.23	-65.56	-13.00	52.56	Horizontal				
4	8763.0000	36.21	-41.41	36.42	-64.04	-13.00	51.04	Horizontal				
5	10515.6000	31.59	-38.75	38.46	-63.96	-13.00	50.96	Horizontal				
6	12938.25	29.66	-37.19	39.08	-63.71	-13.00	50.71	Horizontal				

Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity				
1	3505.2000	41.48	-46.25	28.61	-71.43	-13.00	58.43	Vertical				
2	5257.8000	39.18	-45.17	32.02	-69.23	-13.00	56.23	Vertical				
3	7010.4000	38.05	-43.62	35.23	-65.60	-13.00	52.60	Vertical				
4	8763.0000	36.26	-41.41	36.42	-63.99	-13.00	50.99	Vertical				
5	10515.6000	31.63	-38.75	38.46	-63.92	-13.00	50.92	Vertical				
6	13664.25	30.49	-36.13	40.30	-60.61	-13.00	47.61	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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