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Appendix B.2

WCDMA Band IV



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band IV_EIRPAnt0

1.1.1 Test Result

Band IV								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	23.95	2.34	26.29	<=30	Pass
			1732.6	23.81	2.34	26.15	<=30	Pass
			1752.6	23.82	2.34	26.16	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Band IV

2.1.1 Test Result

Band IV							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	1712.4	8	8	-9.795	-0.0057	/	Pass
			12	-9.936	-0.0058	/	Pass
			16	-9.337	-0.0055	/	Pass
		-30	12	-7.106	-0.0041	/	Pass
		-20	12	-10.914	-0.0064	/	Pass
		-10	12	-12.314	-0.0072	/	Pass
		0	12	-11.545	-0.0067	/	Pass
		10	12	-11.968	-0.0070	/	Pass
		30	12	-8.923	-0.0052	/	Pass
		40	12	-9.463	-0.0055	/	Pass
		50	12	-14.054	-0.0082	/	Pass
	1732.6	8	8	-11.416	-0.0066	/	Pass
			12	-13.311	-0.0077	/	Pass
			16	-10.707	-0.0062	/	Pass
		-30	12	-10.521	-0.0061	/	Pass
		-20	12	-10.105	-0.0058	/	Pass
		-10	12	-7.879	-0.0045	/	Pass
		0	12	-11.548	-0.0067	/	Pass
		10	12	-10.796	-0.0062	/	Pass
		30	12	-9.456	-0.0055	/	Pass
		40	12	-10.731	-0.0062	/	Pass
		50	12	-8.132	-0.0047	/	Pass
	1752.6	20	8	-8.893	-0.0051	/	Pass



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			12	-10.319	-0.0059	/	Pass
			16	-9.271	-0.0053	/	Pass
		-30	12	-7.299	-0.0042	/	Pass
		-20	12	-8.572	-0.0049	/	Pass
		-10	12	-8.841	-0.0050	/	Pass
		0	12	-7.089	-0.0040	/	Pass
		10	12	-6.497	-0.0037	/	Pass
		30	12	-8.104	-0.0046	/	Pass
		40	12	-7.480	-0.0043	/	Pass
		50	12	-8.020	-0.0046	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Band IV_OBW

3.1.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	4.175	/	Pass
			1732.6	4.177	/	Pass
			1752.6	4.177	/	Pass



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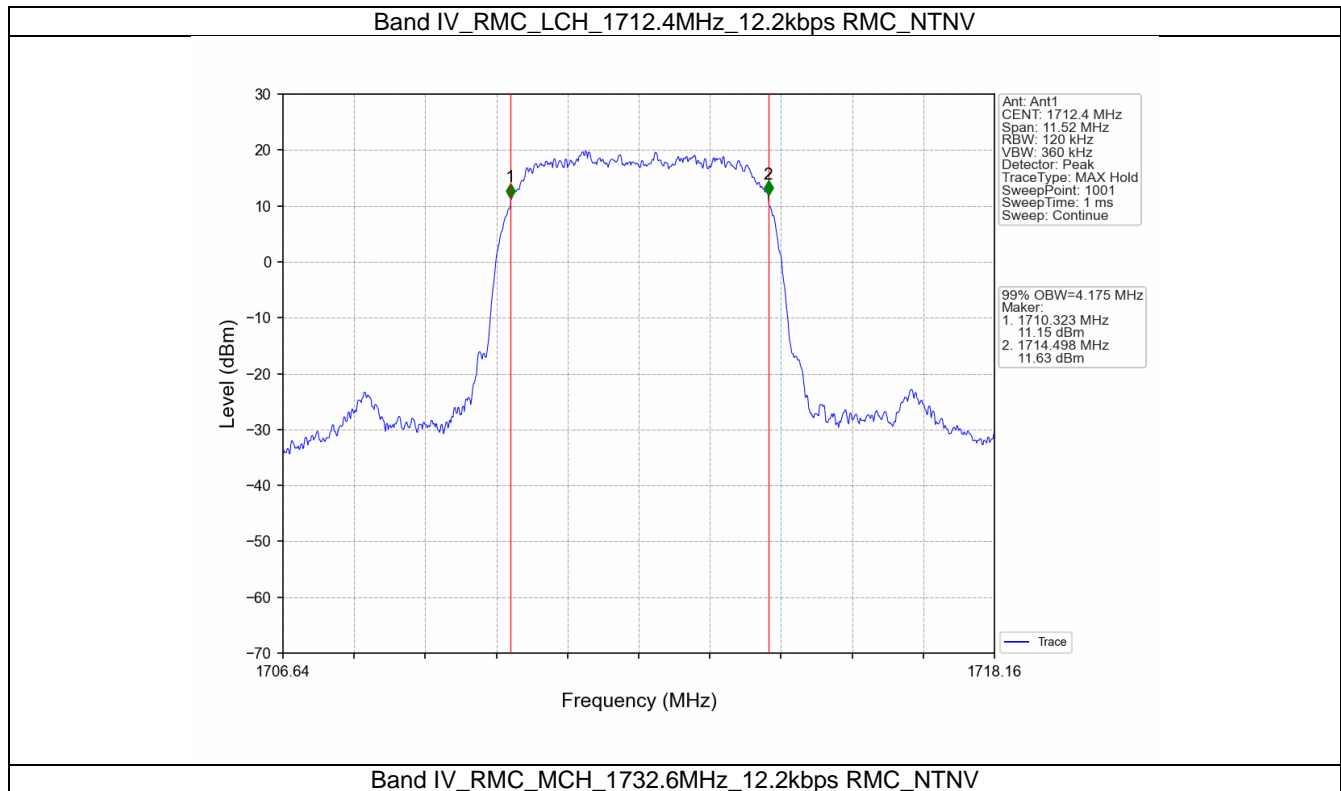
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3.1.2 Test Graph



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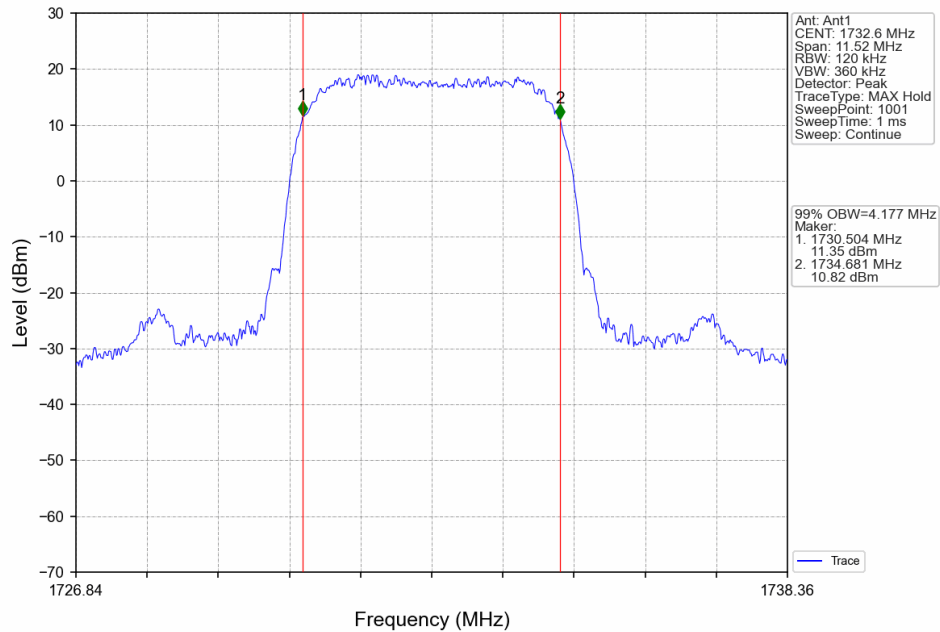
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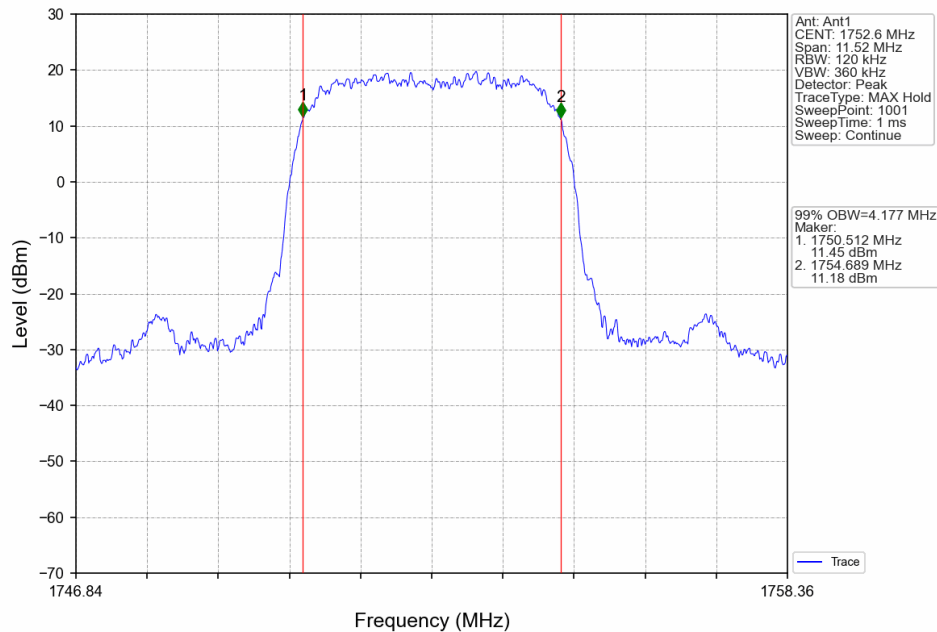
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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3.2 Band IV_XDB

3.2.1 Test Result

Band IV					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	4.751	/
			1732.6	4.752	/
			1752.6	4.750	/
					Verdict
					Pass
					Pass
					Pass



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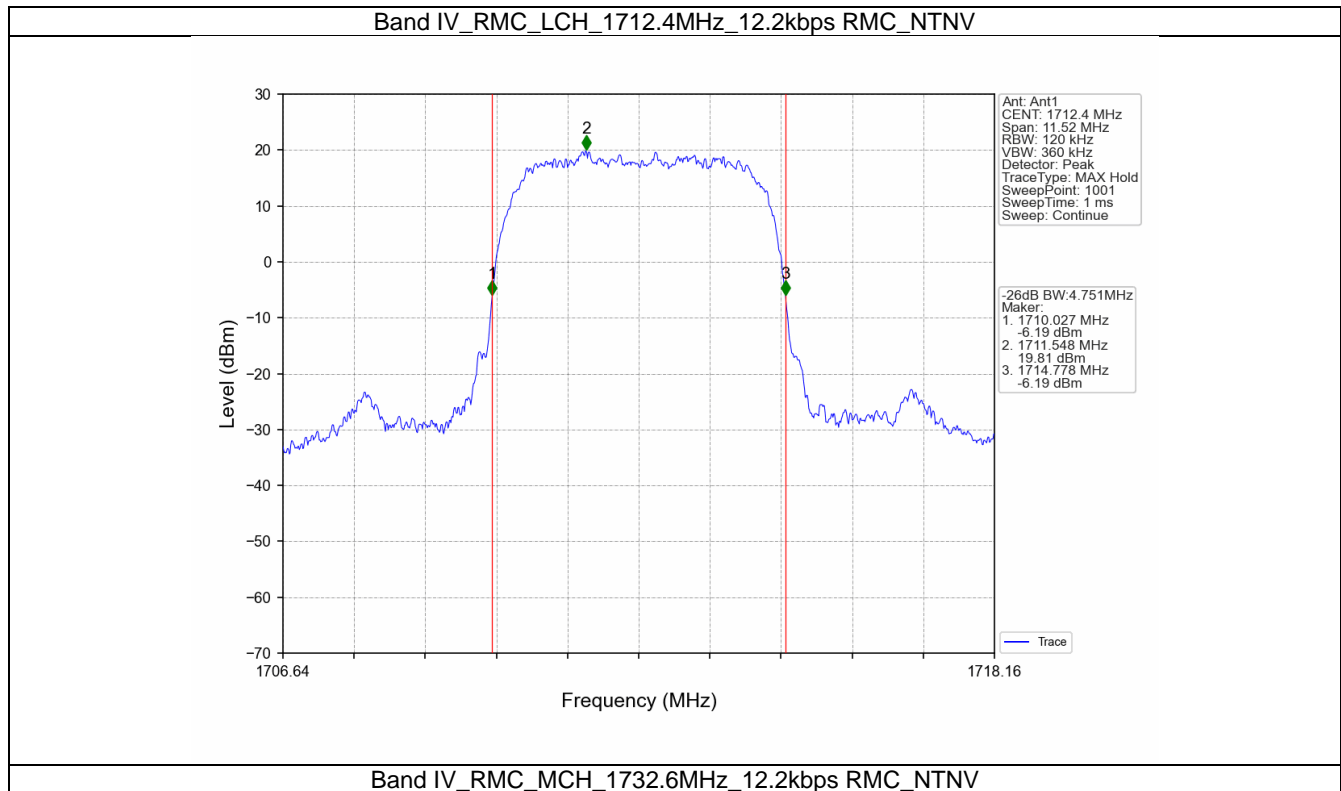
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3.2.2 Test Graph



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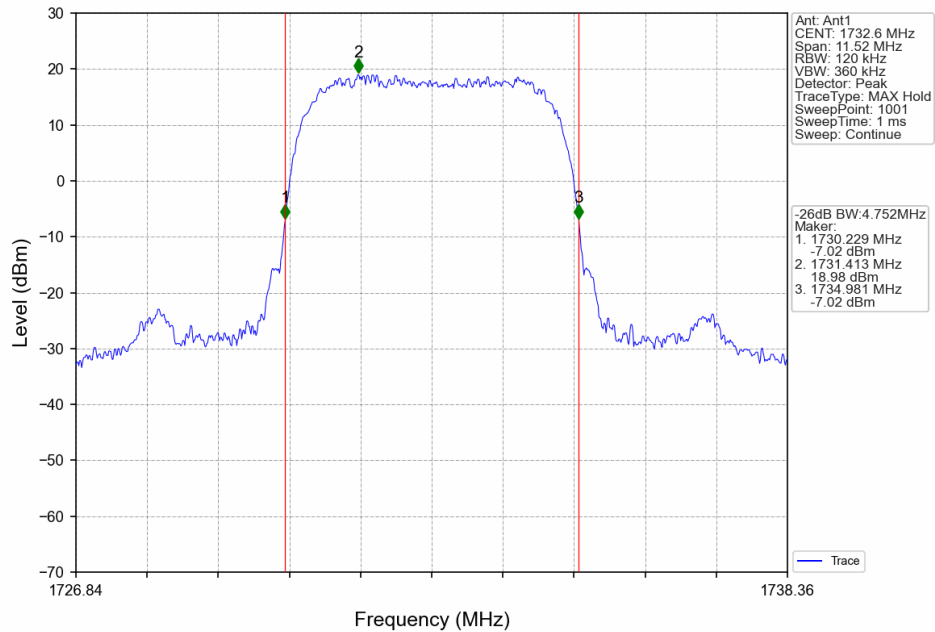
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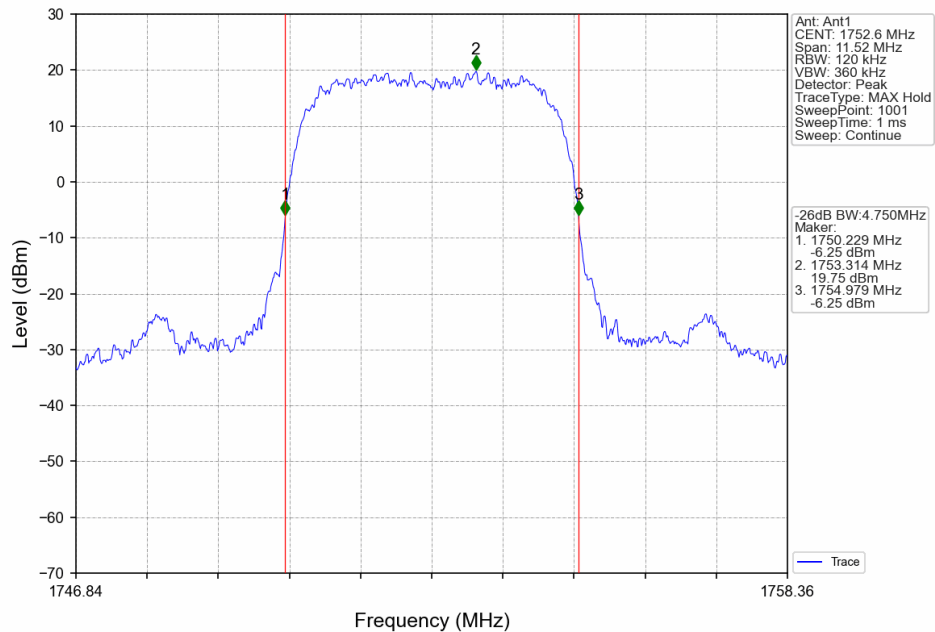
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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4. Peak-Average Ratio

4.1 Band IV

4.1.1 Test Result

Band IV						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	1712.4	2.94	<=13	Pass
			1732.6	3.03	<=13	Pass
			1752.6	2.95	<=13	Pass



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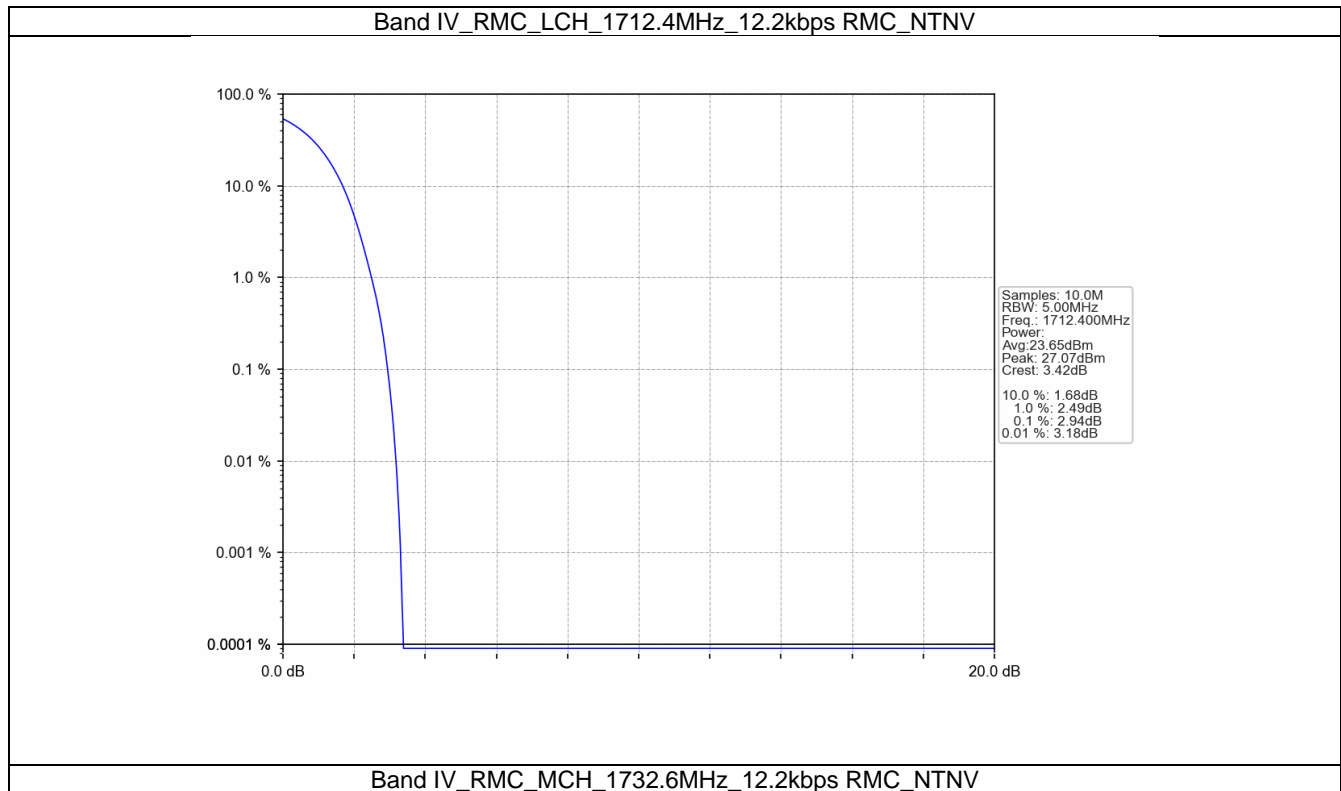
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4.1.2 Test Graph



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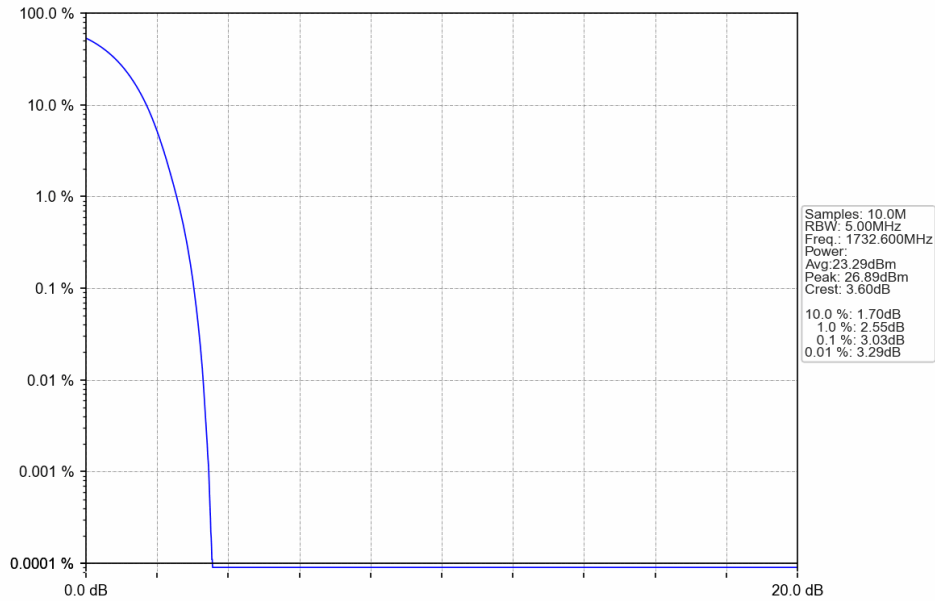
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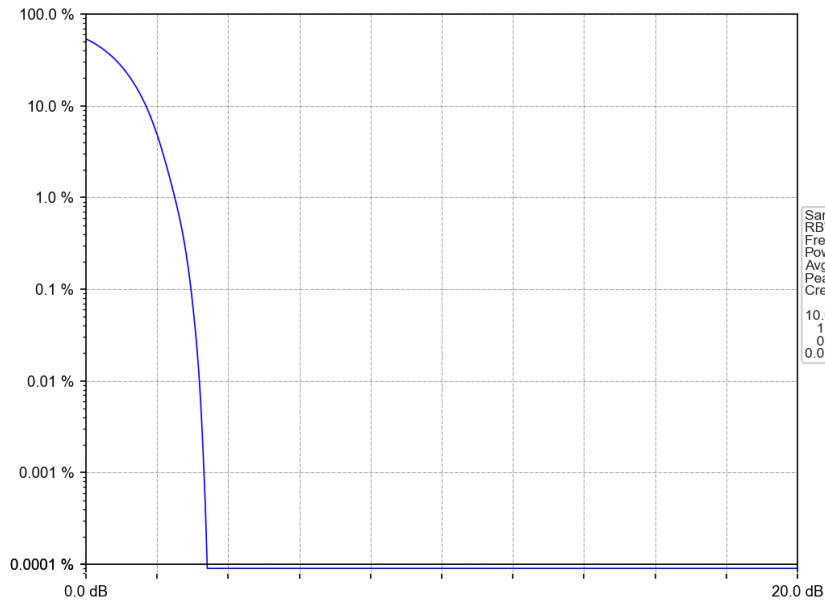
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1752.600MHz
Power:
Avg: 23.52dBm
Peak: 26.98dBm
Crest: 3.46dB
10.0 %: 1.68dB
1.0 %: 2.50dB
0.1 %: 2.95dB
0.01 %: 3.19dB



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5. Spurious Emission & Band Edges

5.1 Band IV

5.1.1 Test Result

Band IV					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	RMC	12.2kbps RMC	1712.4	Refer To Test Graph	Pass
			1732.6	Refer To Test Graph	Pass
			1752.6	Refer To Test Graph	Pass



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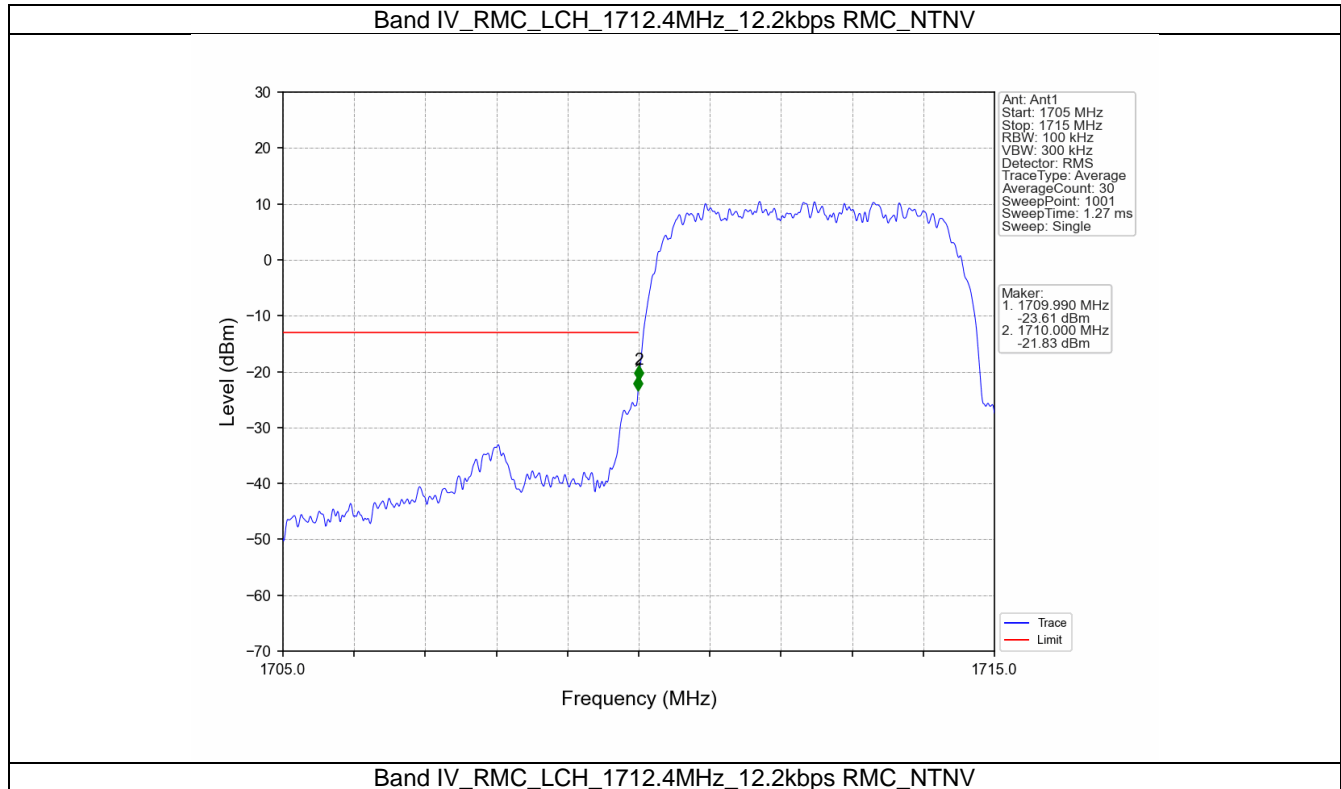
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5.1.2 Test Graph



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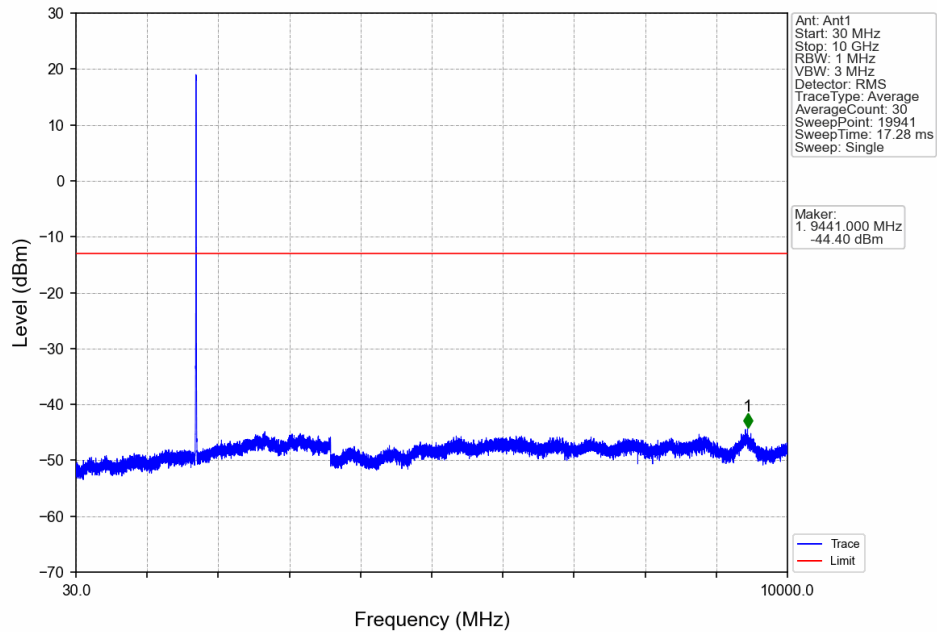
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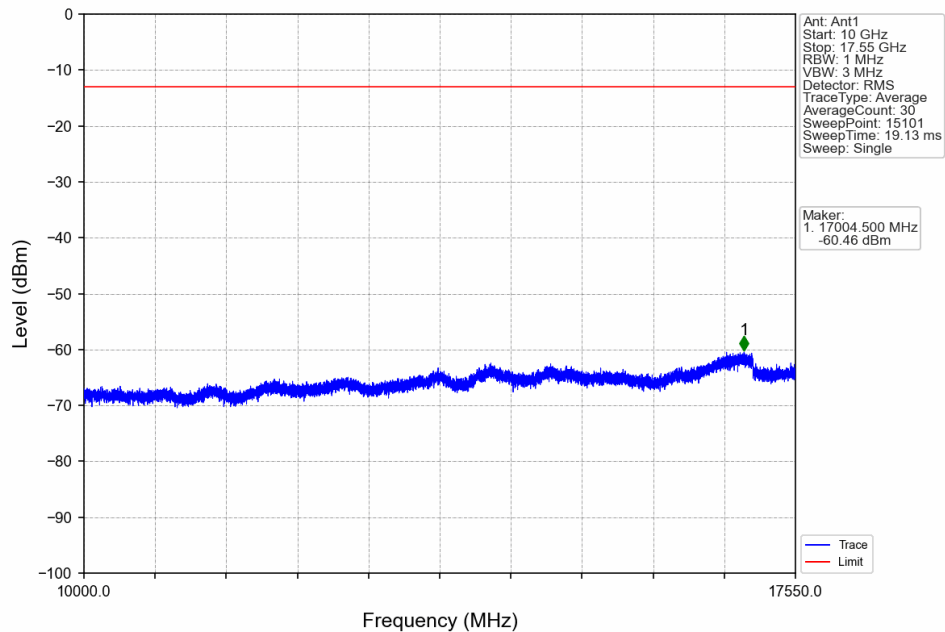
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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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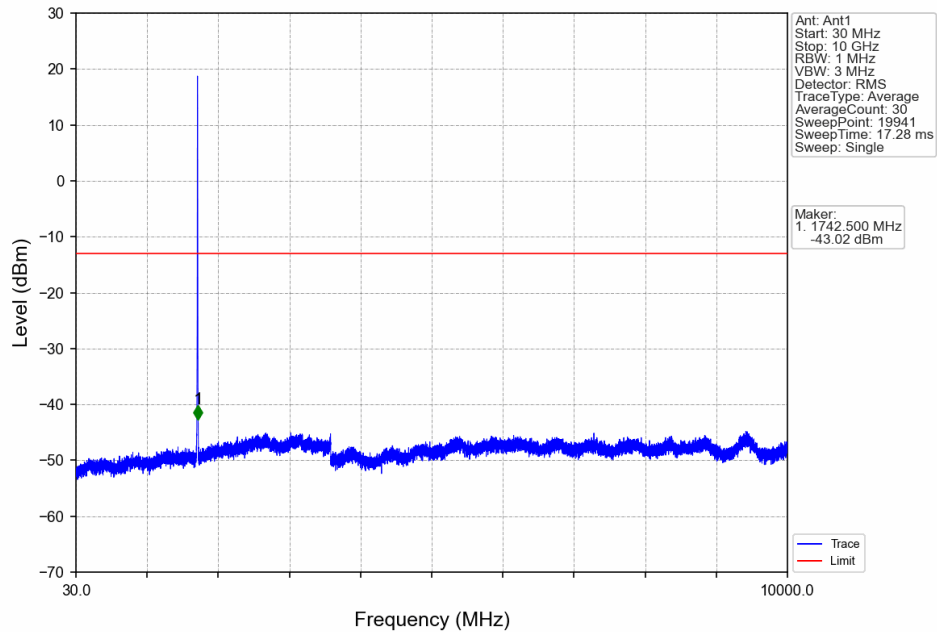
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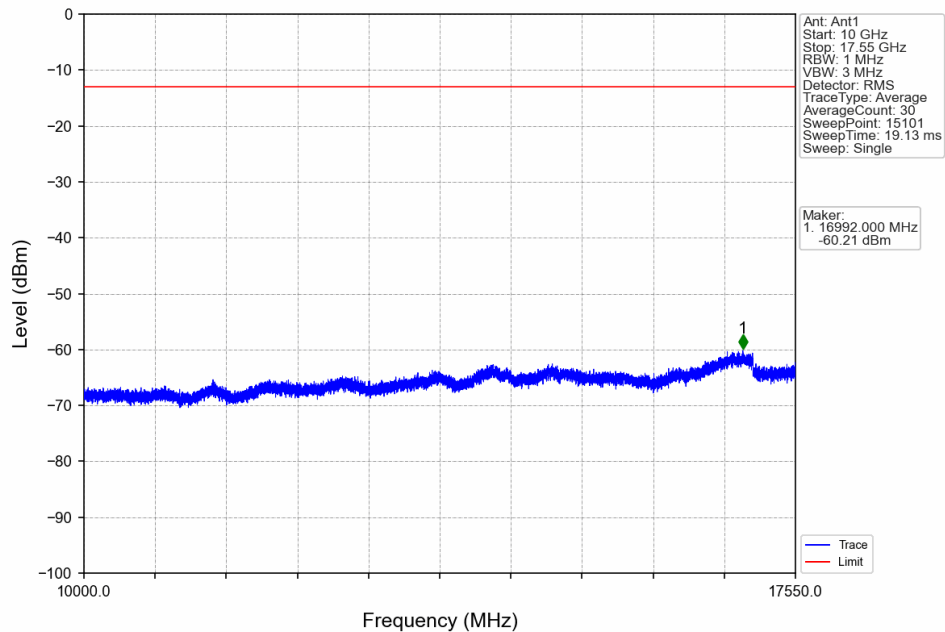
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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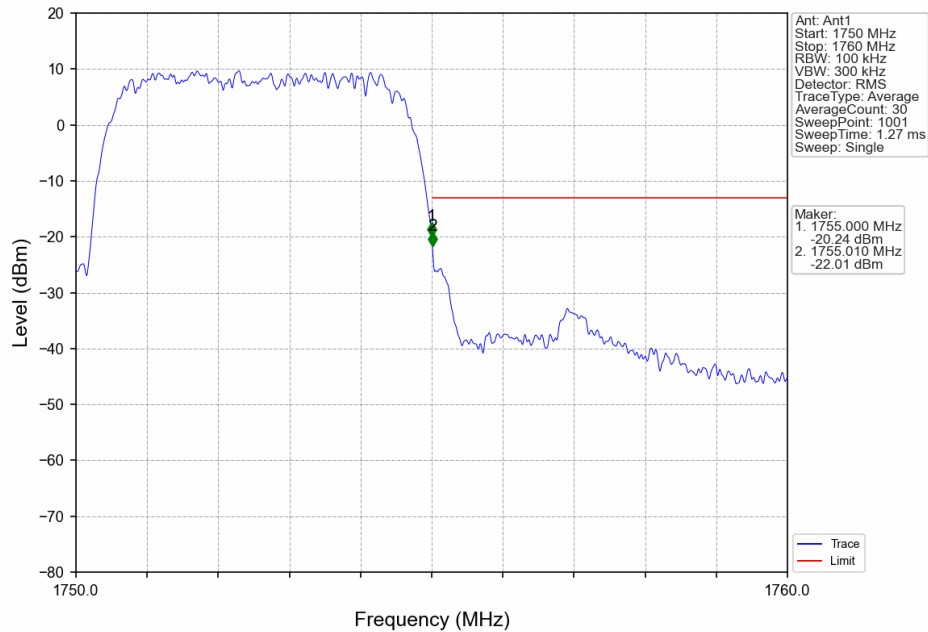
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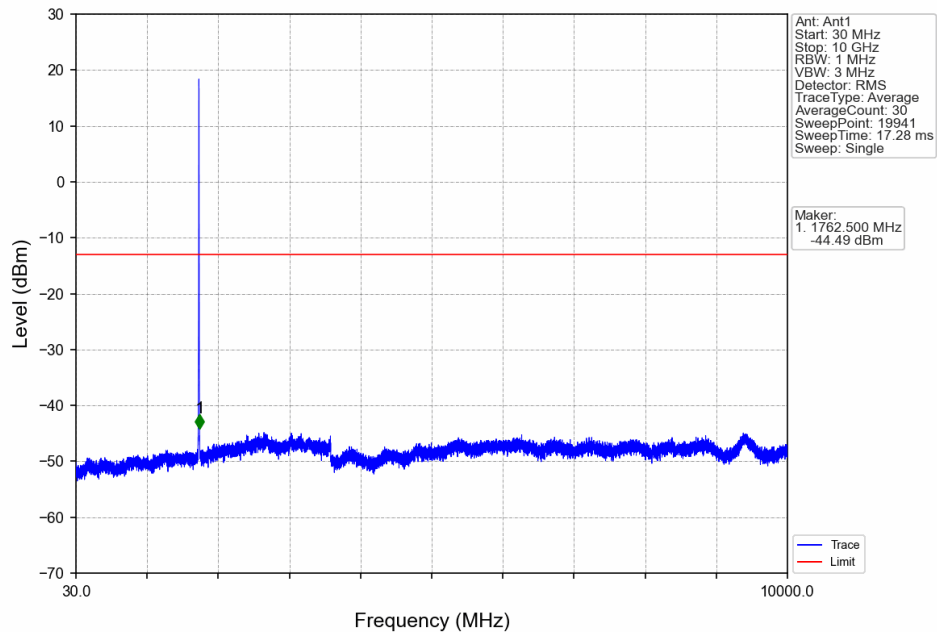
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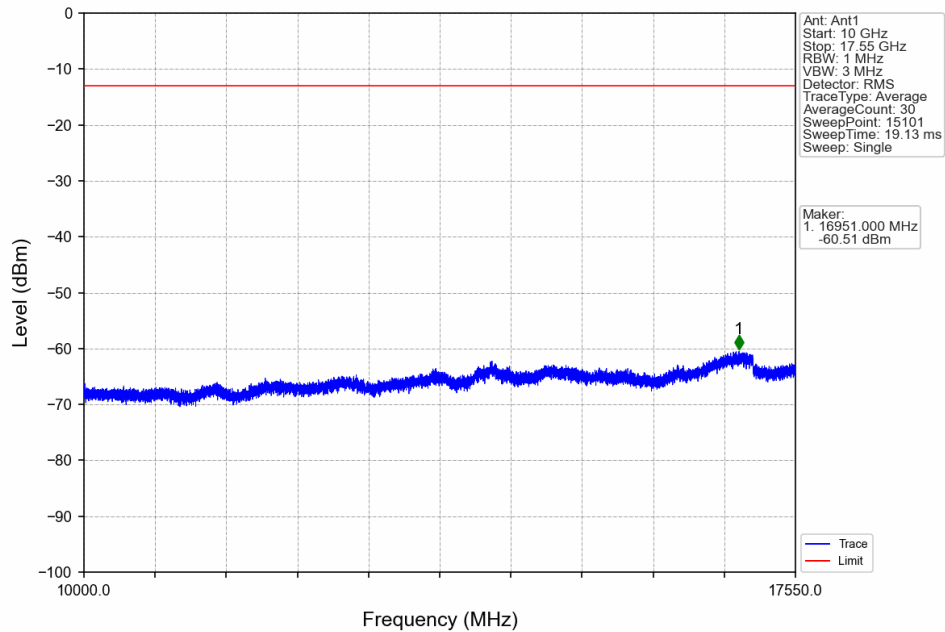
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6. Field Strength of Spurious Radiation

Test Band = WCDMA_Band IV_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3423.5	62.24	-45.32	28.74	-49.60	-13.00	36.60	Horizontal
2	5140	55.28	-42.53	31.74	-50.77	-13.00	37.77	Horizontal
3	7913	42.71	-37.45	36.47	-53.53	-13.00	40.53	Horizontal
4	11787	42.29	-38.89	39.81	-52.05	-13.00	39.05	Horizontal
5	16393	39.92	-34.86	38.78	-51.42	-13.00	38.42	Horizontal
6	17990.5	38.44	-43.12	48.03	-51.91	-13.00	38.91	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3426.5	62.02	-45.32	28.76	-49.80	-13.00	36.80	Vertical
2	5134.5	54.18	-42.53	31.71	-51.90	-13.00	38.90	Vertical
3	7063.5	42.79	-39.31	36.12	-55.66	-13.00	42.66	Vertical
4	10714	42.08	-37.79	39.51	-51.46	-13.00	38.46	Vertical
5	15276.5	39.07	-35.99	39.85	-52.33	-13.00	39.33	Vertical
6	17995	38.23	-43.08	48.11	-52.00	-13.00	39.00	Vertical



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Test Band = WCDMA_ Band IV _TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3463.5	60.30	-45.21	28.95	-51.22	-13.00	38.22	Horizontal
2	5194.5	53.52	-42.55	31.89	-52.40	-13.00	39.40	Horizontal
3	7393.5	42.98	-38.32	36.67	-53.93	-13.00	40.93	Horizontal
4	9887.5	40.33	-35.06	38.50	-51.49	-13.00	38.49	Horizontal
5	15284.5	39.16	-36.06	39.87	-52.29	-13.00	39.29	Horizontal
6	17981	38.94	-43.19	47.86	-51.65	-13.00	38.65	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3466.5	58.06	-45.20	28.97	-53.43	-13.00	40.43	Vertical
2	5195.5	53.62	-42.55	31.89	-52.30	-13.00	39.30	Vertical
3	7426.5	42.78	-38.28	36.75	-54.01	-13.00	41.01	Vertical
4	9916.5	40.47	-35.39	38.62	-51.56	-13.00	38.56	Vertical
5	12327	42.67	-39.39	39.36	-52.62	-13.00	39.62	Vertical
6	17981.5	38.46	-43.19	47.87	-52.12	-13.00	39.12	Vertical



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Test Band = WCDMA_Band IV_TM1
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3504	60.37	-45.08	29.09	-50.88	-13.00	37.88	Horizontal
2	5260.5	50.54	-42.40	31.66	-55.46	-13.00	42.46	Horizontal
3	7396.5	42.92	-38.30	36.69	-53.95	-13.00	40.95	Horizontal
4	10706	42.00	-37.77	39.51	-51.52	-13.00	38.52	Horizontal
5	13872	40.77	-40.03	40.79	-53.73	-13.00	40.73	Horizontal
6	17979.5	38.91	-43.20	47.83	-51.72	-13.00	38.72	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3506.5	53.70	-45.06	29.09	-57.53	-13.00	44.53	Vertical
2	5255	54.32	-42.42	31.63	-51.73	-13.00	38.73	Vertical
3	7422	42.81	-38.28	36.74	-53.99	-13.00	40.99	Vertical
4	11106.5	42.34	-37.70	40.20	-50.42	-13.00	37.42	Vertical
5	16399.5	39.49	-34.82	38.80	-51.79	-13.00	38.79	Vertical
6	18000	37.73	-43.04	48.20	-52.37	-13.00	39.37	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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