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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_EIRP (NPANT001)

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	23.10	3.91	27.01	<=30	Pass
			1732.6	23.17	3.91	27.08	<=30	Pass
			1752.6	23.21	3.91	27.12	<=30	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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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	20	3.135	6.492	0.0038	/	Pass
			3.7	7.383	0.0043	/	Pass
			4.4	7.811	0.0046	/	Pass
		-30	3.7	6.555	0.0038	/	Pass
		-20	3.7	7.835	0.0046	/	Pass
		-10	3.7	7.596	0.0044	/	Pass
		0	3.7	8.248	0.0048	/	Pass
		10	3.7	8.285	0.0048	/	Pass
		30	3.7	7.755	0.0045	/	Pass
		40	3.7	7.792	0.0046	/	Pass
		50	3.7	8.610	0.0050	/	Pass
	1732.6	20	3.135	-12.503	-0.0072	/	Pass
			3.7	-11.025	-0.0064	/	Pass
			4.4	-11.513	-0.0066	/	Pass
		-30	3.7	-11.828	-0.0068	/	Pass
		-20	3.7	-11.932	-0.0069	/	Pass
		-10	3.7	-11.869	-0.0069	/	Pass
		0	3.7	-11.908	-0.0069	/	Pass
		10	3.7	-12.113	-0.0070	/	Pass
		30	3.7	-11.433	-0.0066	/	Pass
		40	3.7	-12.019	-0.0069	/	Pass
		50	3.7	-11.826	-0.0068	/	Pass
	1752.6	20	3.135	-1.095	-0.0006	/	Pass
			3.7	-0.003	0.0000	/	Pass
			4.4	-0.484	-0.0003	/	Pass
		-30	3.7	-0.934	-0.0005	/	Pass
		-20	3.7	-1.472	-0.0008	/	Pass
		-10	3.7	-0.936	-0.0005	/	Pass
		0	3.7	-1.312	-0.0007	/	Pass
		10	3.7	-1.268	-0.0007	/	Pass
		30	3.7	-1.792	-0.0010	/	Pass
		40	3.7	-0.677	-0.0004	/	Pass
		50	3.7	-0.745	-0.0004	/	Pass



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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	4.151	/	Pass
			1732.6	4.150	/	Pass
			1752.6	4.144	/	Pass



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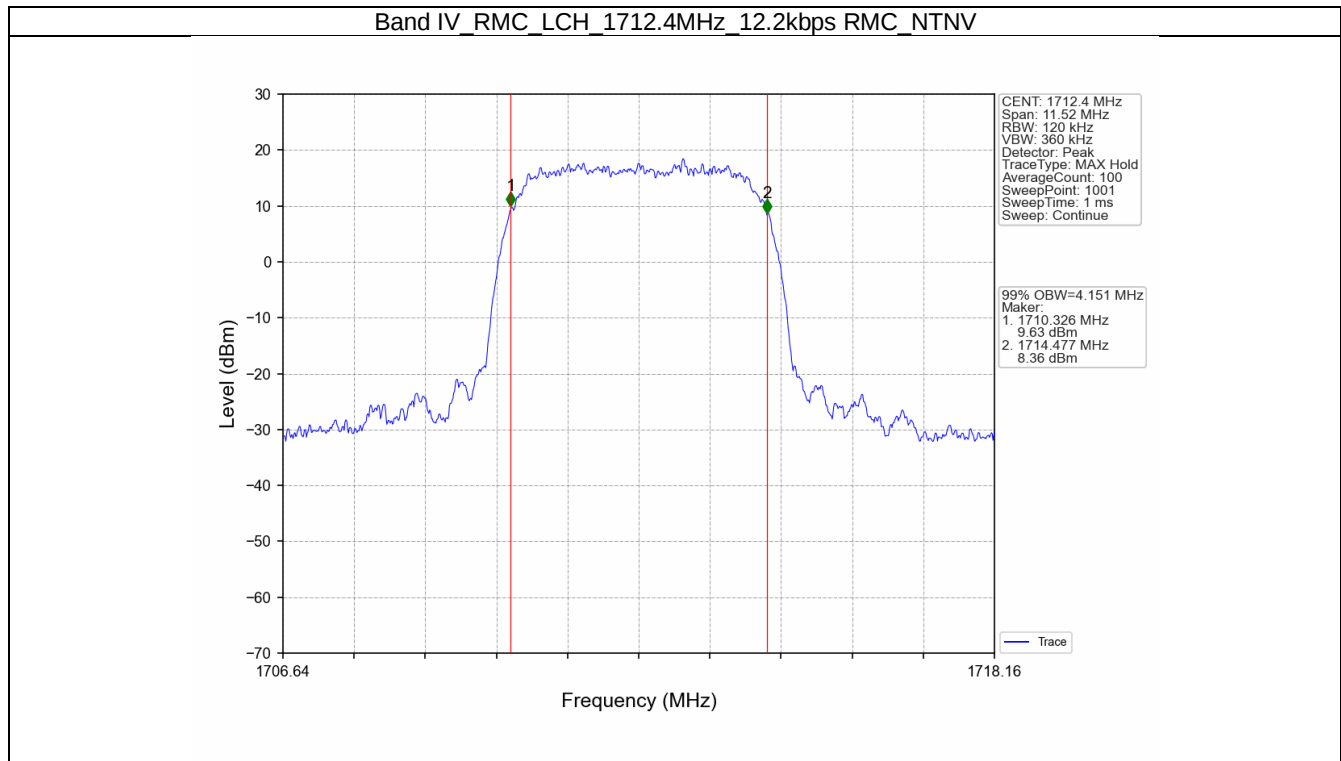
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3.1.2 Test Graph



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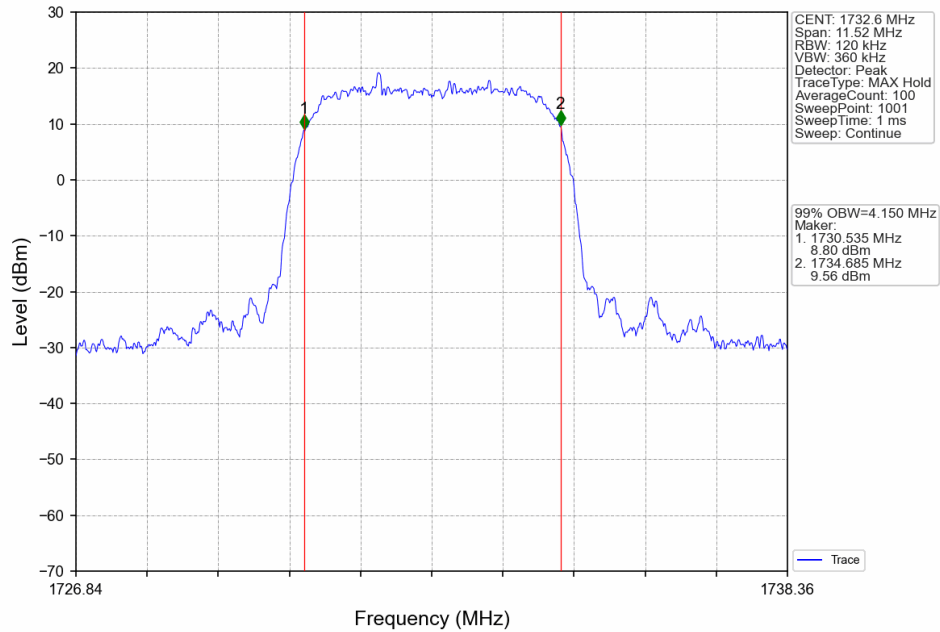
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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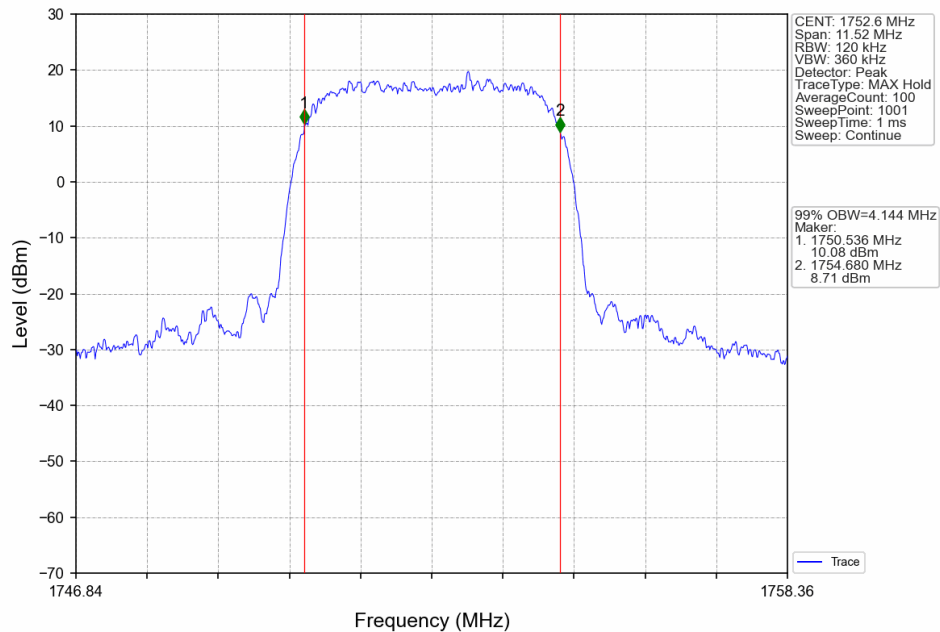
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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	4.761	/
			1732.6	4.721	/
			1752.6	4.738	/
					Pass
					Pass
					Pass



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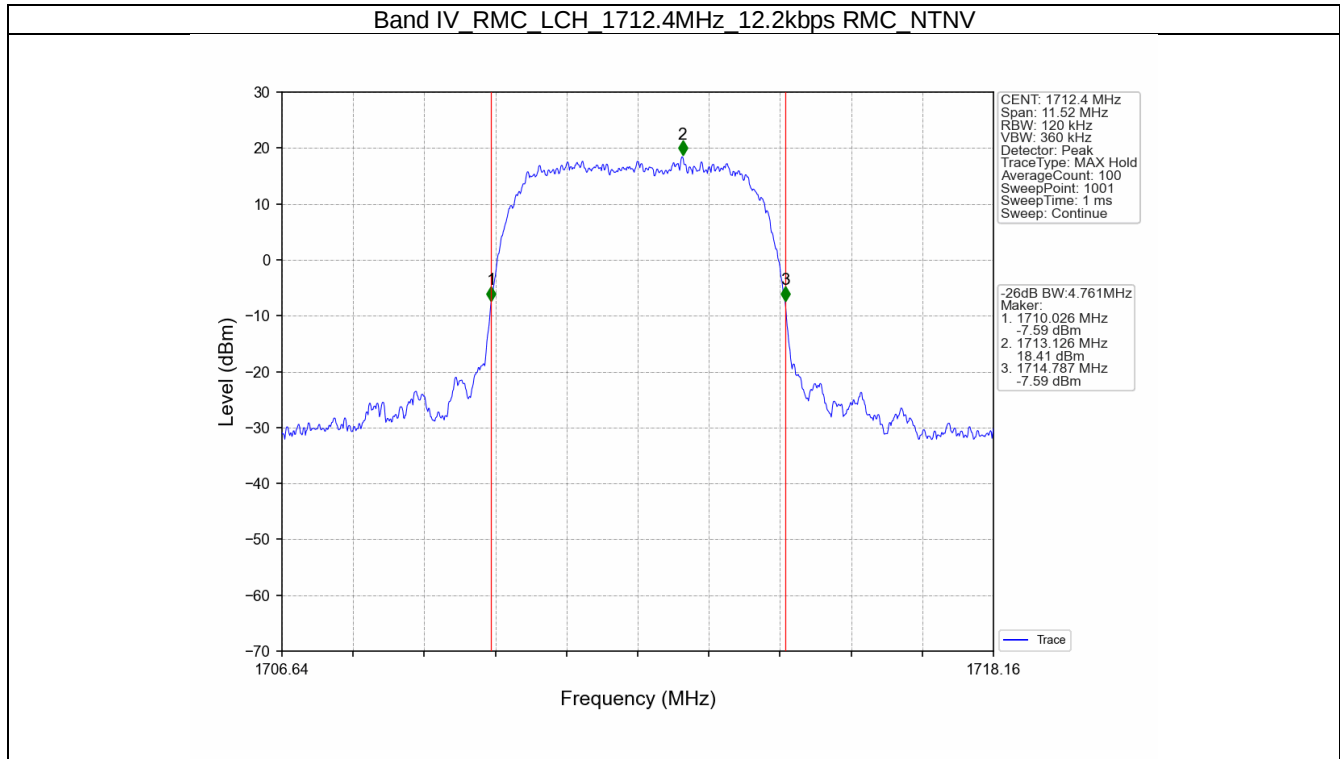
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3.2.2 Test Graph



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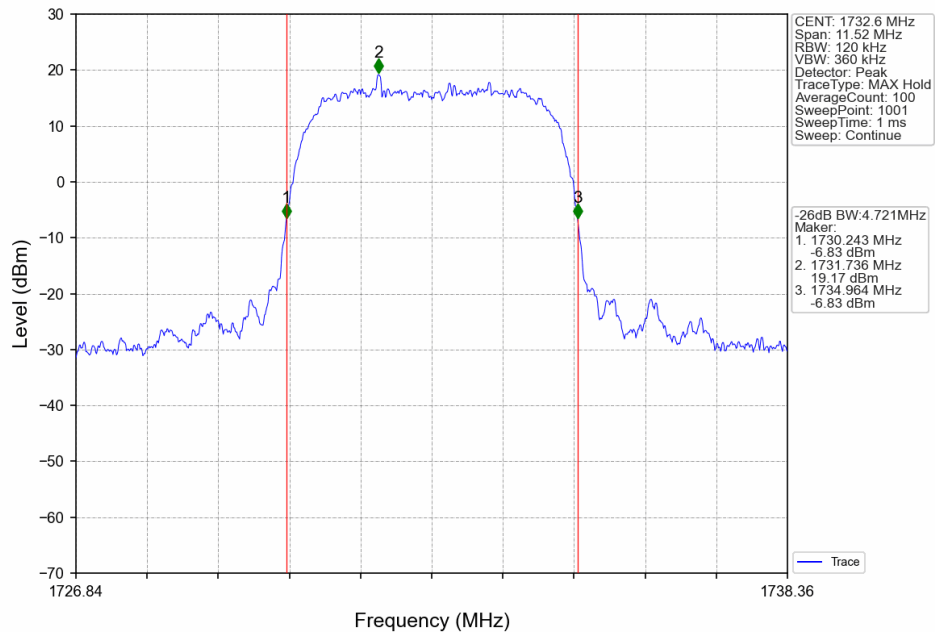
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



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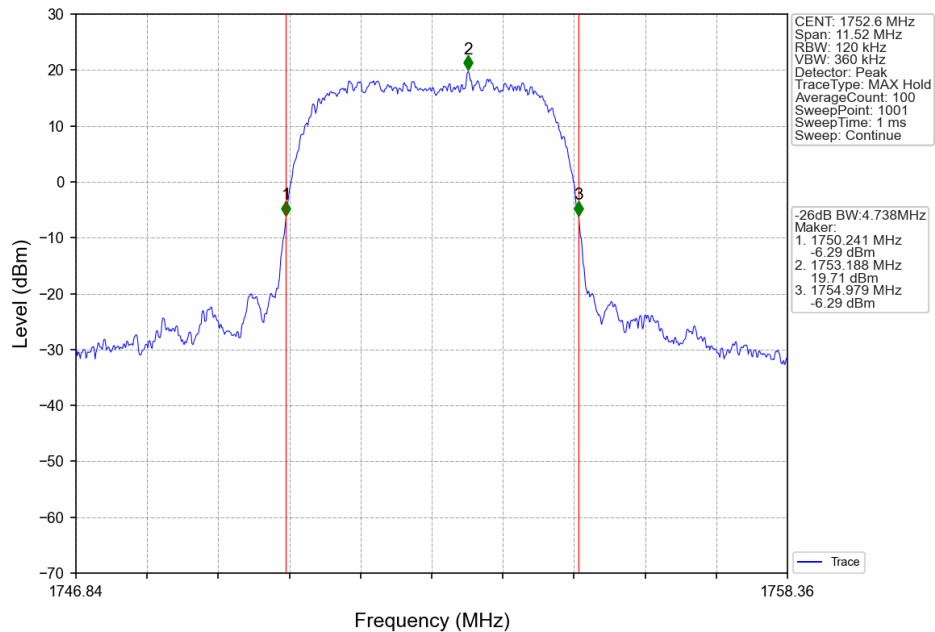
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



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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	2.83	<=13	Pass
			1732.6	2.83	<=13	Pass
			1752.6	2.79	<=13	Pass



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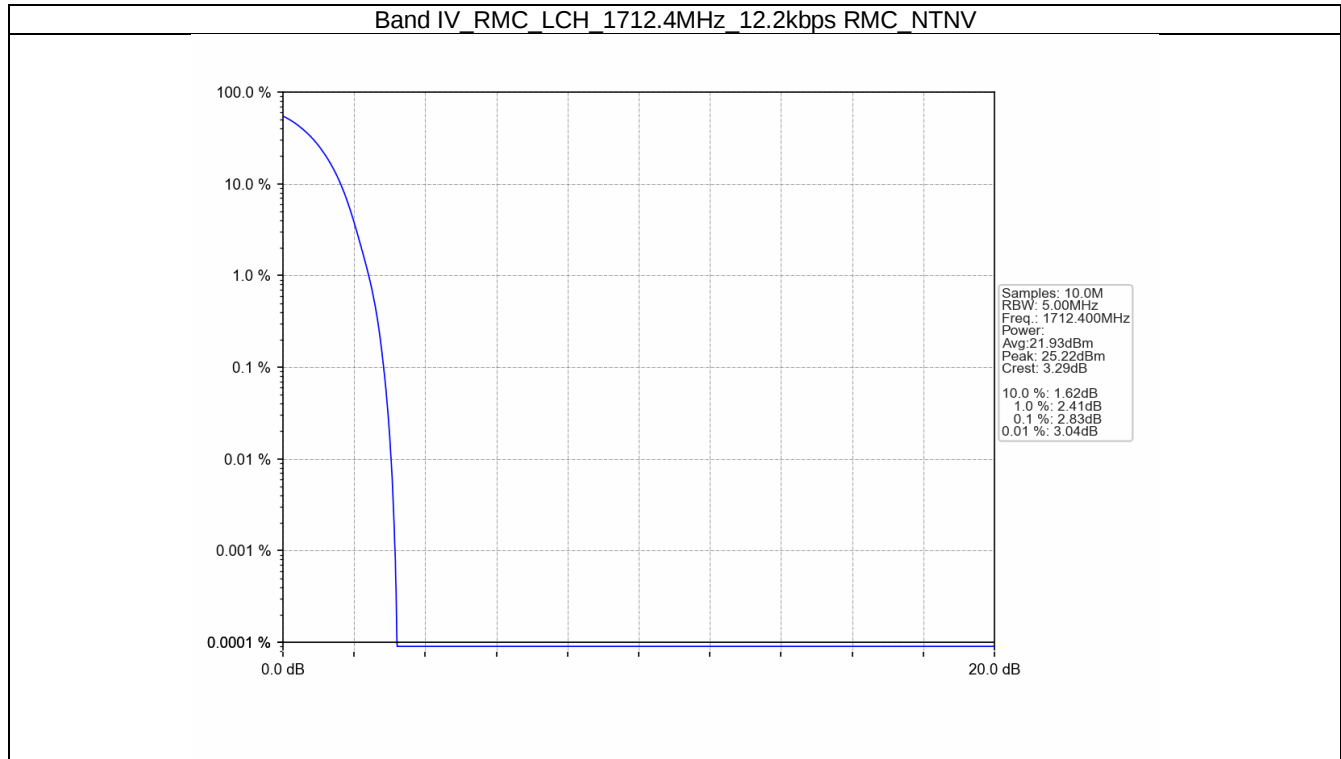
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4.1.2 Test Graph



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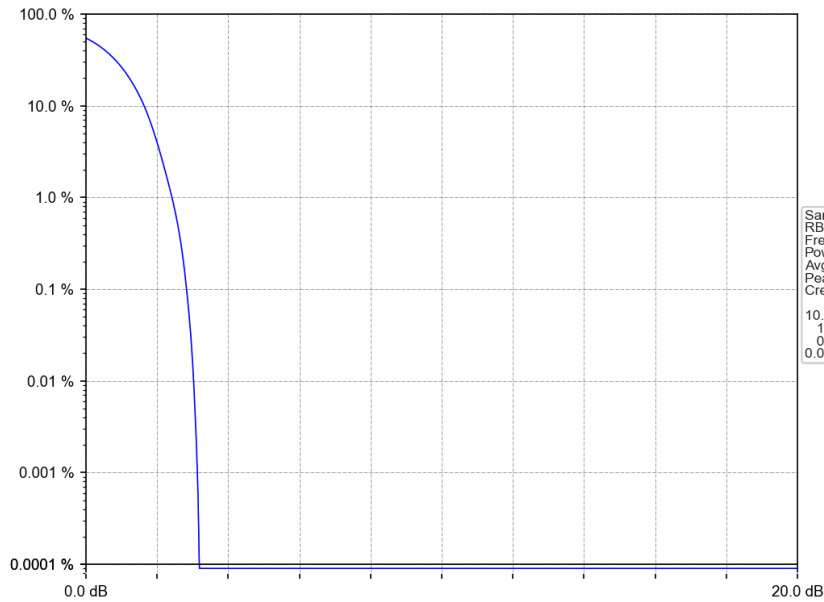
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Band IV_RMC_MCH_1732.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1732.600MHz
Power:
Avg: 21.60dBm
Peak: 24.84dBm
Crest: 3.24dB

10.0 %: 1.63dB
1.0 %: 2.42dB
0.1 %: 2.83dB
0.01 %: 3.03dB



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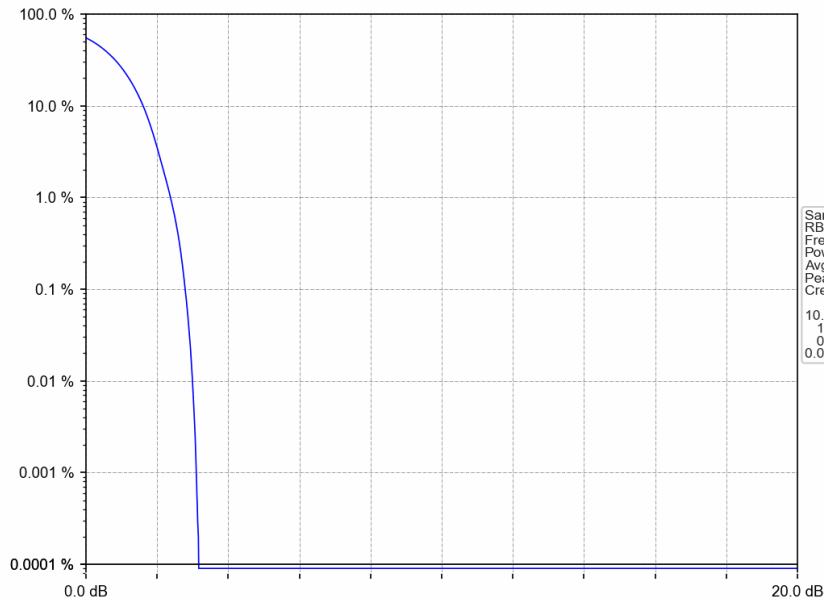
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Band IV_RMC_HCH_1752.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 1752.600MHz
Power:
Avg: 22.35dBm
Peak: 25.56dBm
Crest: 3.21dB

10.0 %: 1.61dB
1.0 %: 2.38dB
0.1 %: 2.79dB
0.01 %: 2.99dB



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5. Spurious Emission & Band Edge

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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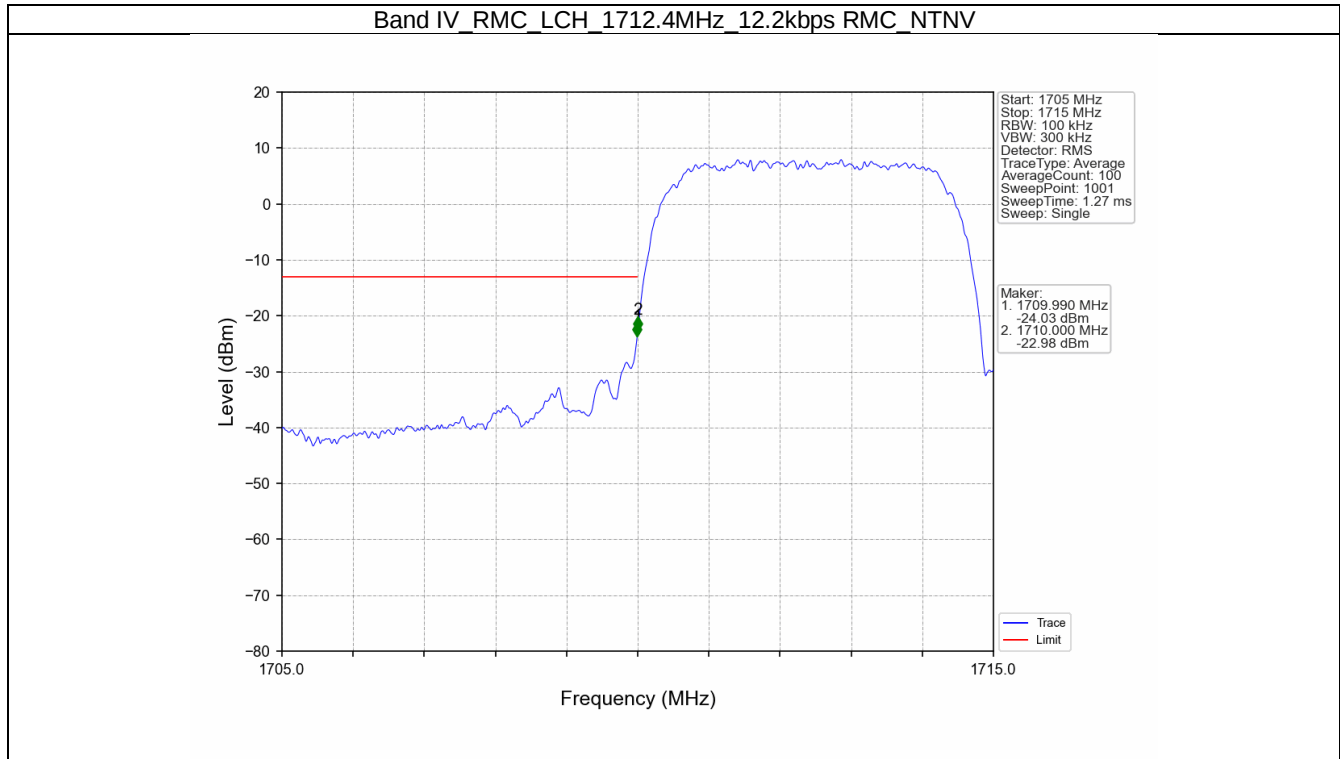
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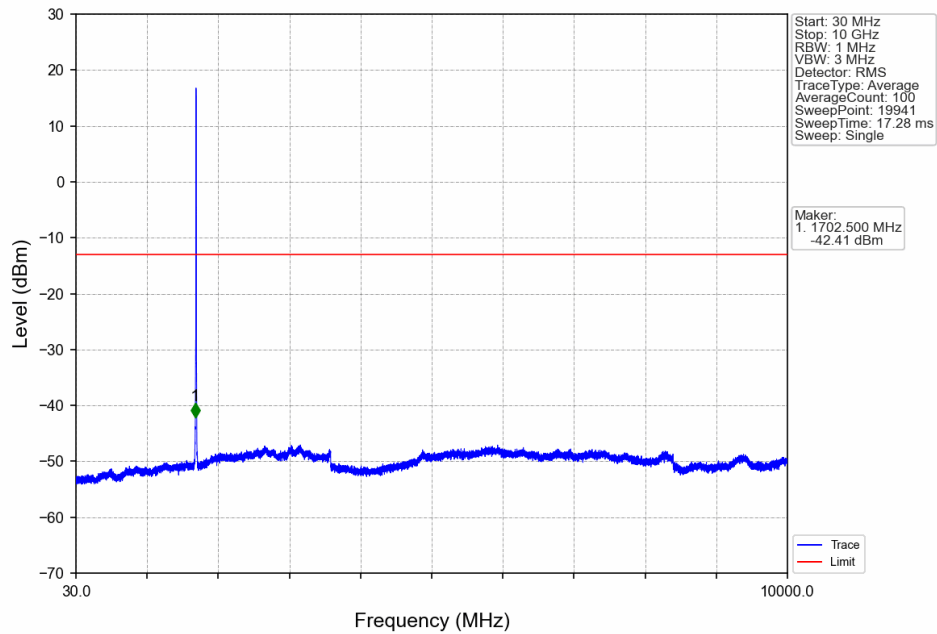
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Band IV_RMC_LCH_1712.4MHz_12.2kbps RMC_NTNV



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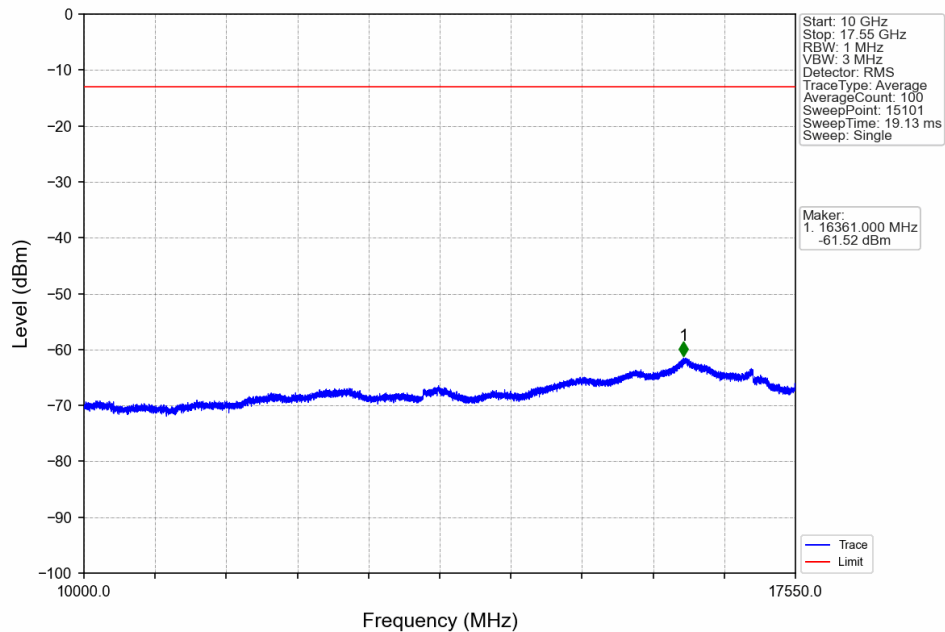
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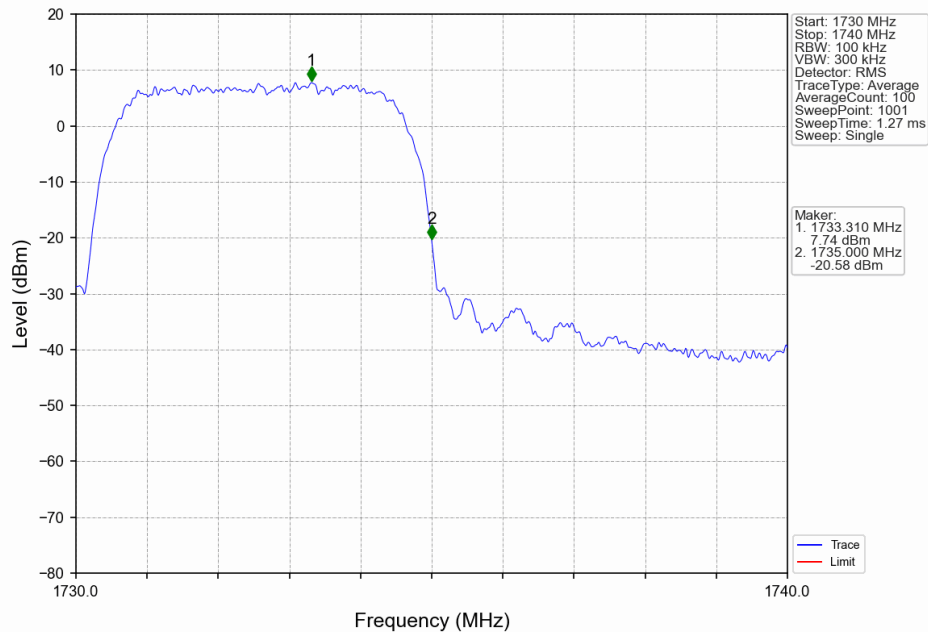
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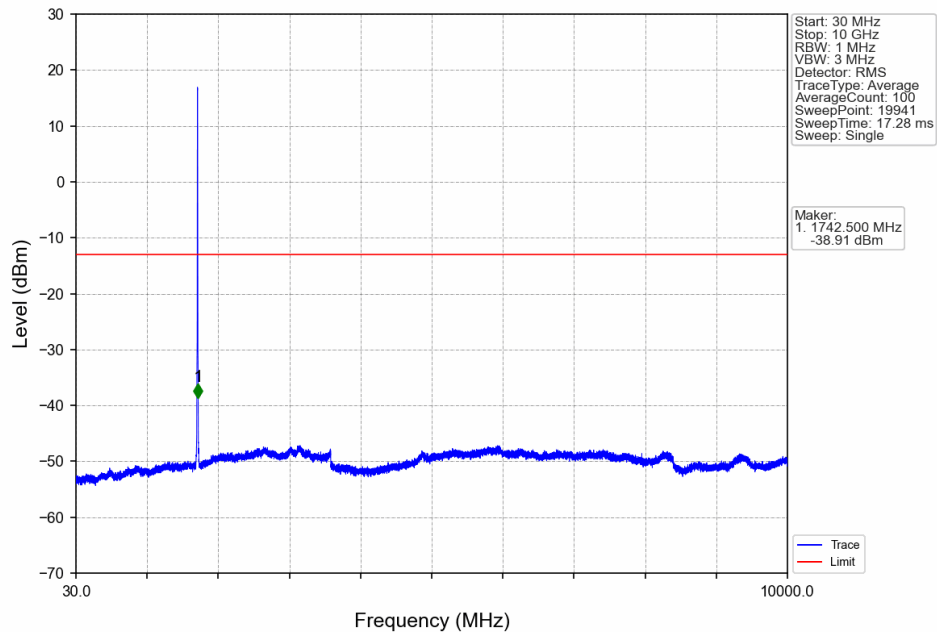
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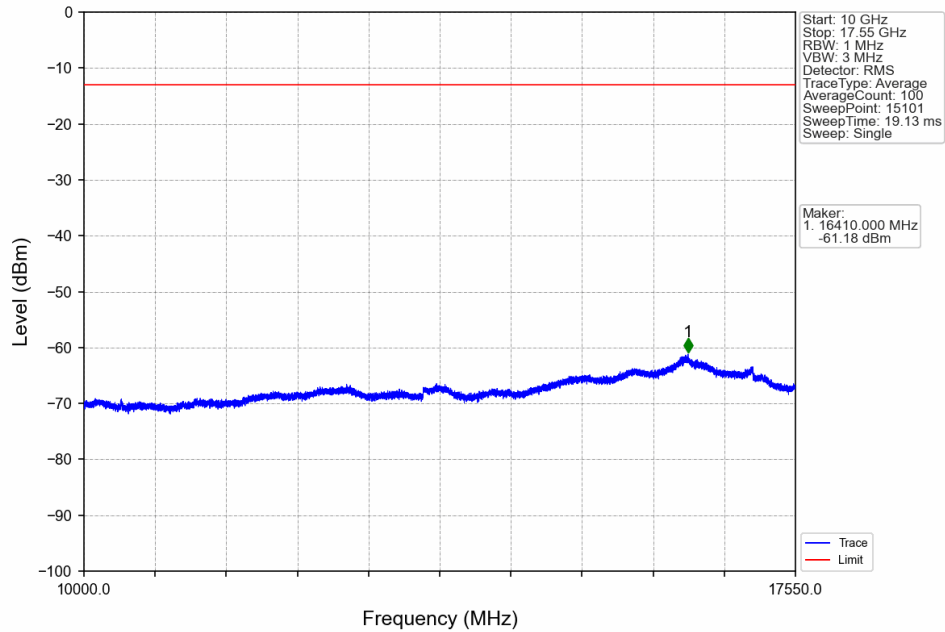
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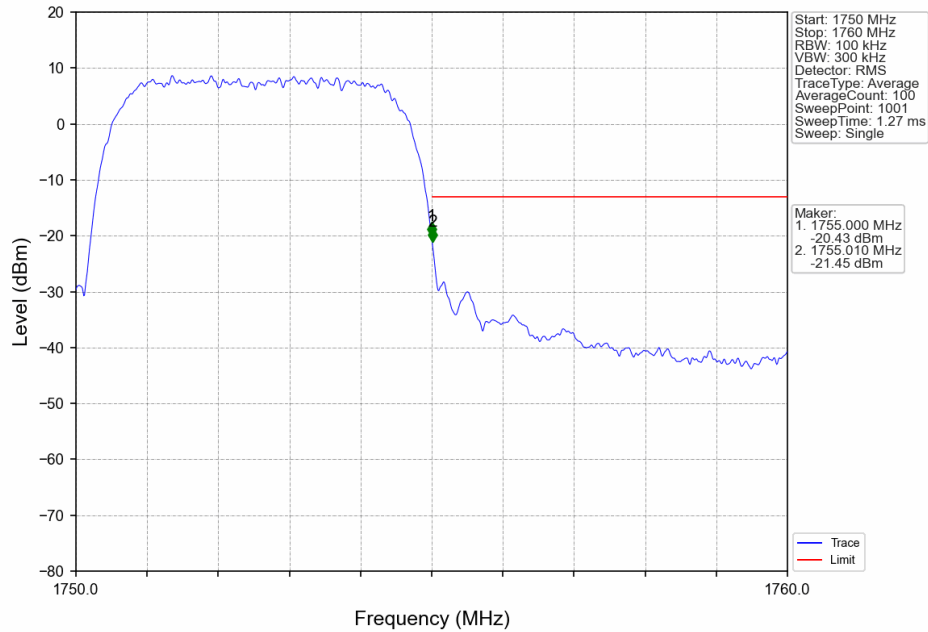
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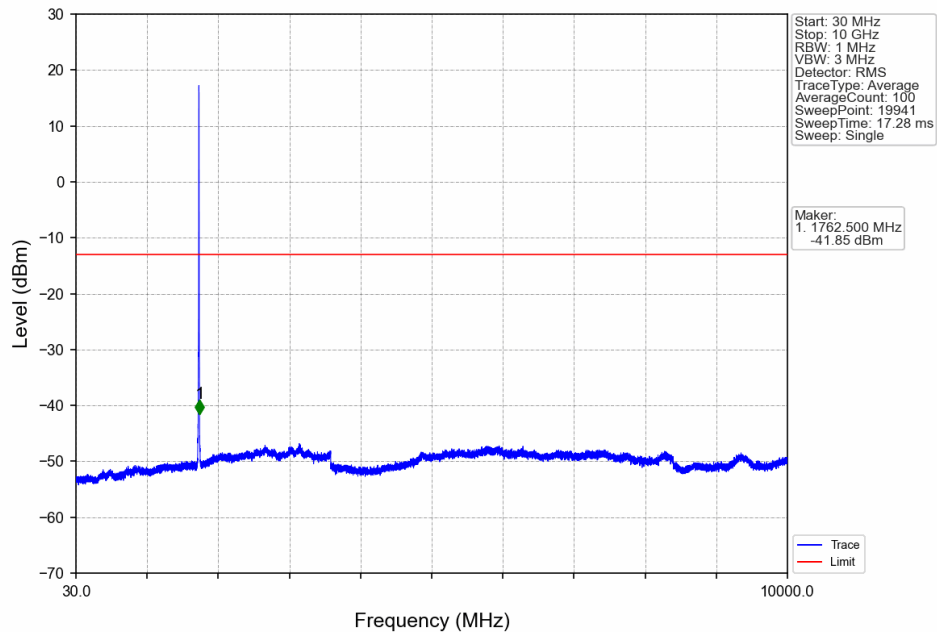
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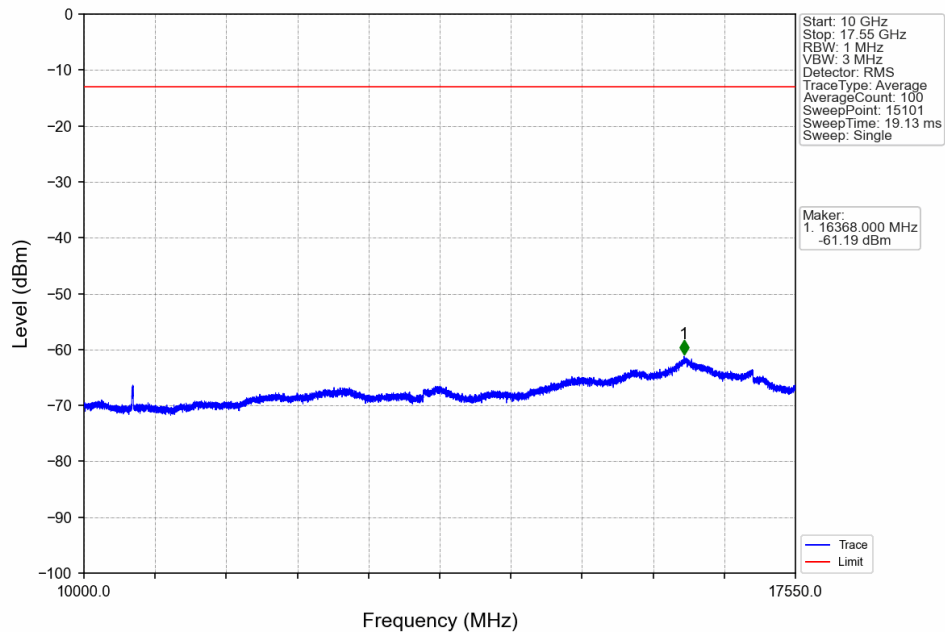
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6. Field Strength of Spurious Radiation

Test Band = WCDMA Band IV_ 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	3424.8	37.54	-43.25	29.59	-71.39	-13.00	58.39	Horizontal
2	5137.2	35.50	-41.10	33.17	-67.69	-13.00	54.69	Horizontal
3	6849.6	34.32	-38.40	35.94	-63.40	-13.00	50.40	Horizontal
4	8562	32.78	-35.32	37.38	-60.42	-13.00	47.42	Horizontal
5	10274.4	30.18	-32.18	38.04	-59.22	-13.00	46.22	Horizontal
6	11986.8	29.30	-29.64	38.40	-57.20	-13.00	44.20	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8	35.85	-43.25	29.59	-73.08	-13.00	60.08	Vertical
2	5137.2	35.00	-41.10	33.17	-68.19	-13.00	55.19	Vertical
3	6849.6	34.57	-38.40	35.94	-63.15	-13.00	50.15	Vertical
4	8562	32.24	-35.32	37.38	-60.96	-13.00	47.96	Vertical
5	10274.4	30.42	-32.18	38.04	-58.98	-13.00	45.98	Vertical
6	11986.8	28.88	-29.64	38.40	-57.62	-13.00	44.62	Vertical



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Test Band = WCDMA Band IV_ 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	3465.2	36.64	-43.16	29.59	-72.19	-13.00	59.19	Horizontal
2	5197.8	35.18	-40.82	33.16	-67.74	-13.00	54.74	Horizontal
3	6930.4	34.59	-38.35	35.97	-63.04	-13.00	50.04	Horizontal
4	8663	30.77	-35.33	37.43	-62.39	-13.00	49.39	Horizontal
5	10395.6	29.11	-31.48	38.10	-59.53	-13.00	46.53	Horizontal
6	12128.2	28.72	-29.39	38.55	-57.37	-13.00	44.37	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2	35.87	-43.16	29.59	-72.96	-13.00	59.96	Vertical
2	5197.8	34.51	-40.82	33.16	-68.41	-13.00	55.41	Vertical
3	6930.4	33.71	-38.35	35.97	-63.92	-13.00	50.92	Vertical
4	8663	31.69	-35.33	37.43	-61.47	-13.00	48.47	Vertical
5	10395.6	30.63	-31.48	38.10	-58.01	-13.00	45.01	Vertical
6	12128.2	28.96	-29.39	38.55	-57.13	-13.00	44.13	Vertical



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Test Band = WCDMA Band IV_ 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	3505.2	36.46	-43.06	29.62	-72.24	-13.00	59.24	Horizontal
2	5257.8	34.92	-40.87	33.15	-68.06	-13.00	55.06	Horizontal
3	7010.4	34.29	-38.35	36.01	-63.31	-13.00	50.31	Horizontal
4	8763	31.74	-35.10	37.48	-61.13	-13.00	48.13	Horizontal
5	10515.6	29.06	-31.20	38.16	-59.24	-13.00	46.24	Horizontal
6	12268.2	28.71	-29.90	38.72	-57.73	-13.00	44.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2	35.28	-43.06	29.62	-73.42	-13.00	60.42	Vertical
2	5257.8	34.63	-40.87	33.15	-68.35	-13.00	55.35	Vertical
3	7010.4	33.94	-38.35	36.01	-63.66	-13.00	50.66	Vertical
4	8763	31.44	-35.10	37.48	-61.43	-13.00	48.43	Vertical
5	10515.6	28.84	-31.20	38.16	-59.46	-13.00	46.46	Vertical
6	12268.2	29.45	-29.90	38.72	-56.99	-13.00	43.99	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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