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Appendix B.4

WCDMA Band V



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Effective (Isotropic) Radiated Power Output Data

Band V_ERP Ant0

Test Result

Band V								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	23.46	-1.60	19.71	<=38.45	Pass
			836.6	23.52	-1.60	19.77	<=38.45	Pass
			846.6	23.39	-1.60	19.64	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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Peak-Average Ratio

Band V

Test Result

Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.64	<=13	Pass
			836.6	2.73	<=13	Pass
			846.6	2.73	<=13	Pass



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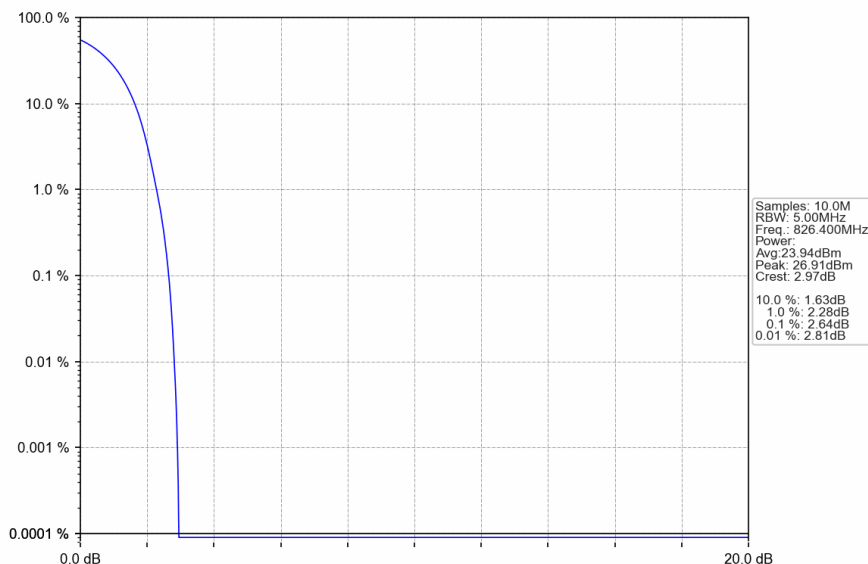
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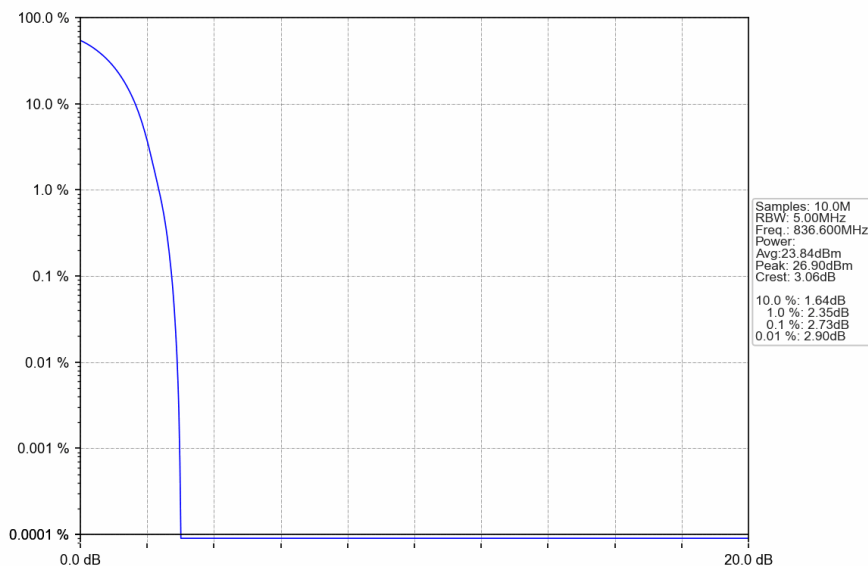
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Test Graph

Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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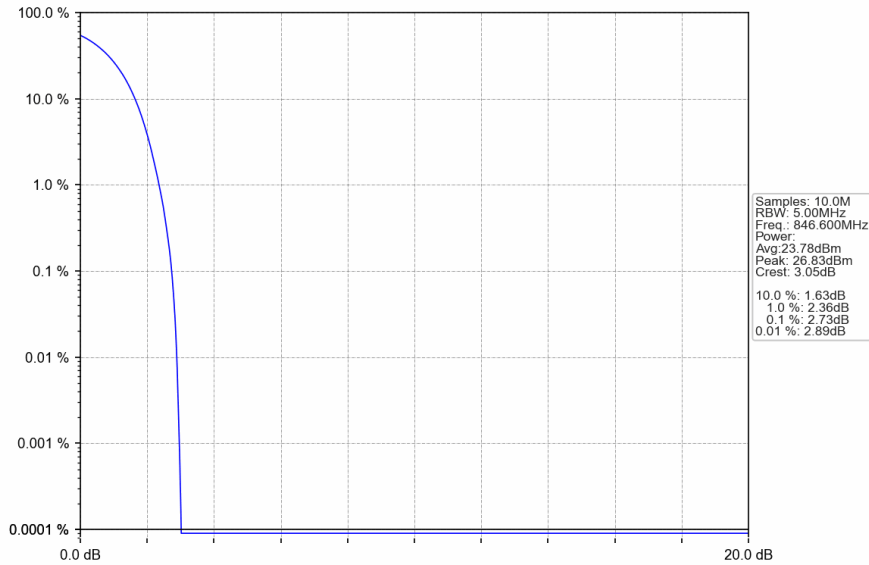
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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99% & 26dB Bandwidth

Band V_OBW

Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.165	/	Pass
			836.6	4.166	/	Pass
			846.6	4.158	/	Pass



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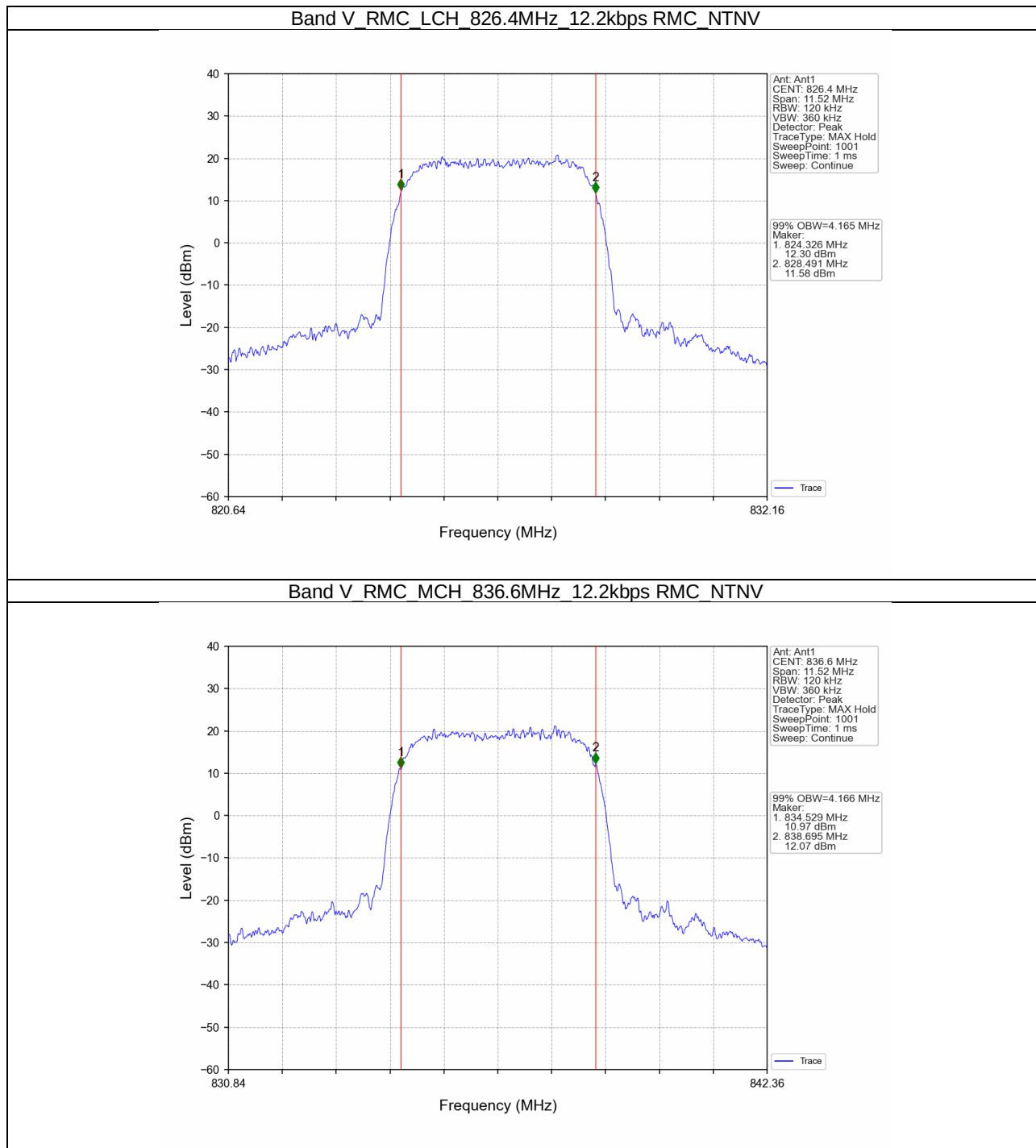
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Test Graph



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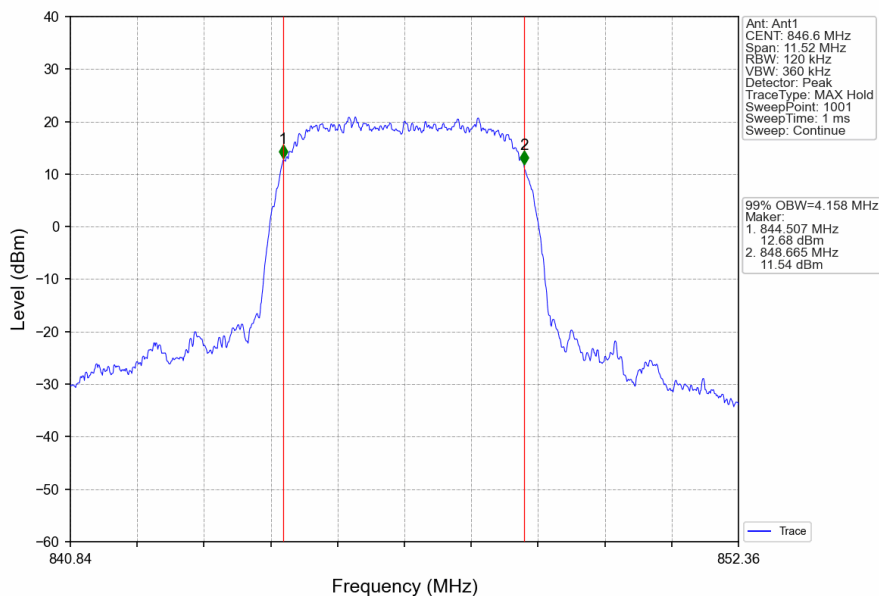
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Band V_XDB

Test Result

Band V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.769	/	Pass
			836.6	4.746	/	Pass
			846.6	4.755	/	Pass



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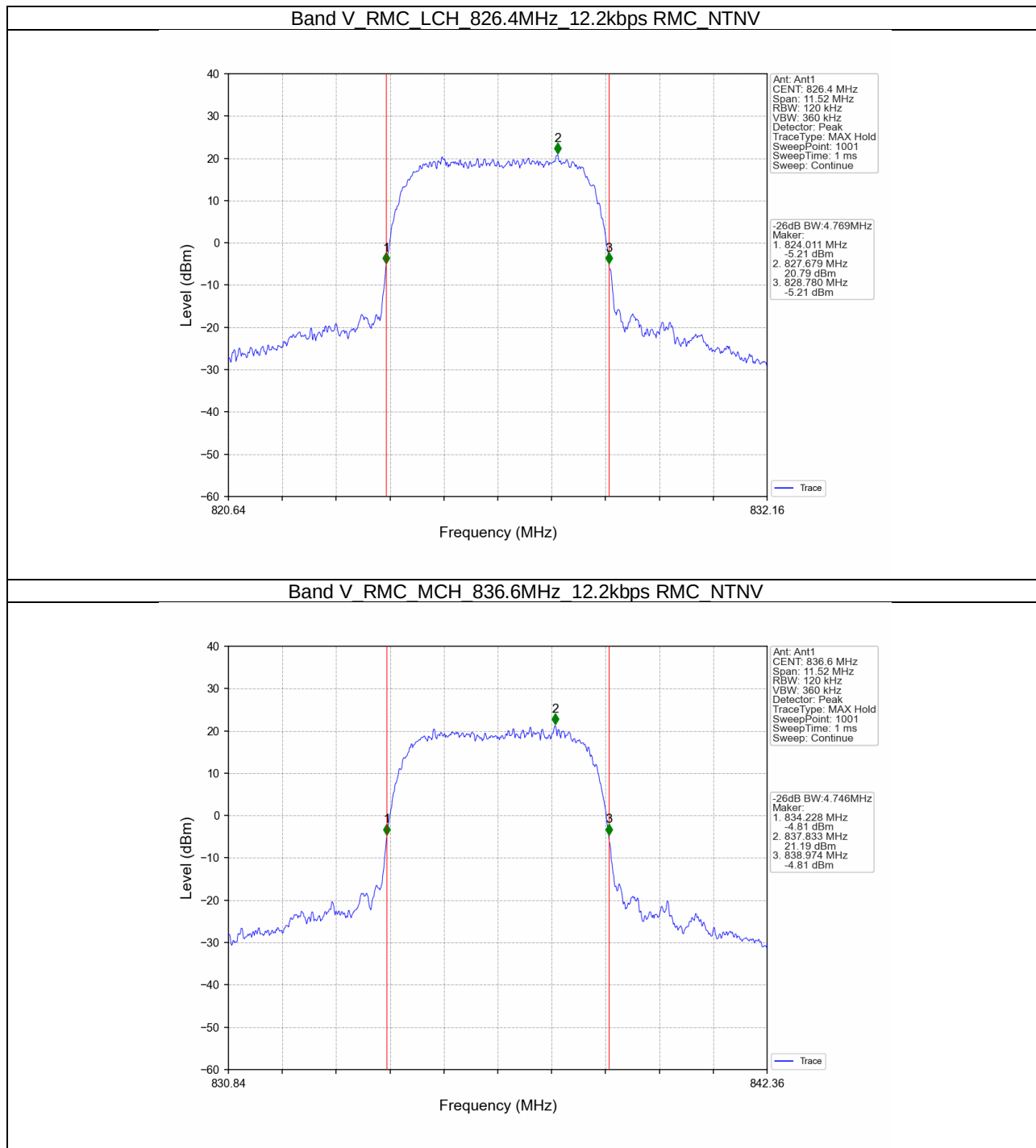
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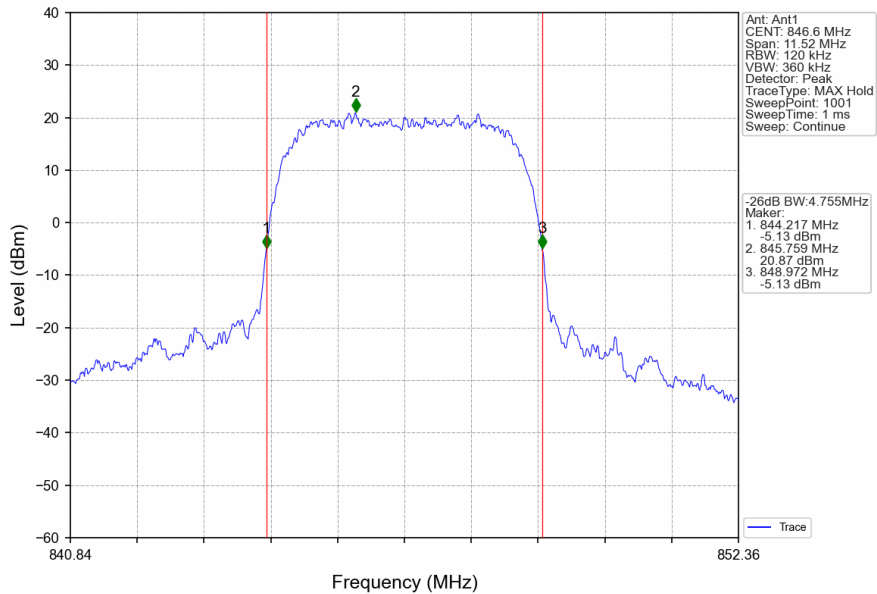
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Spurious Emission & Band Edge

Band V

Test Result

Band V						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass



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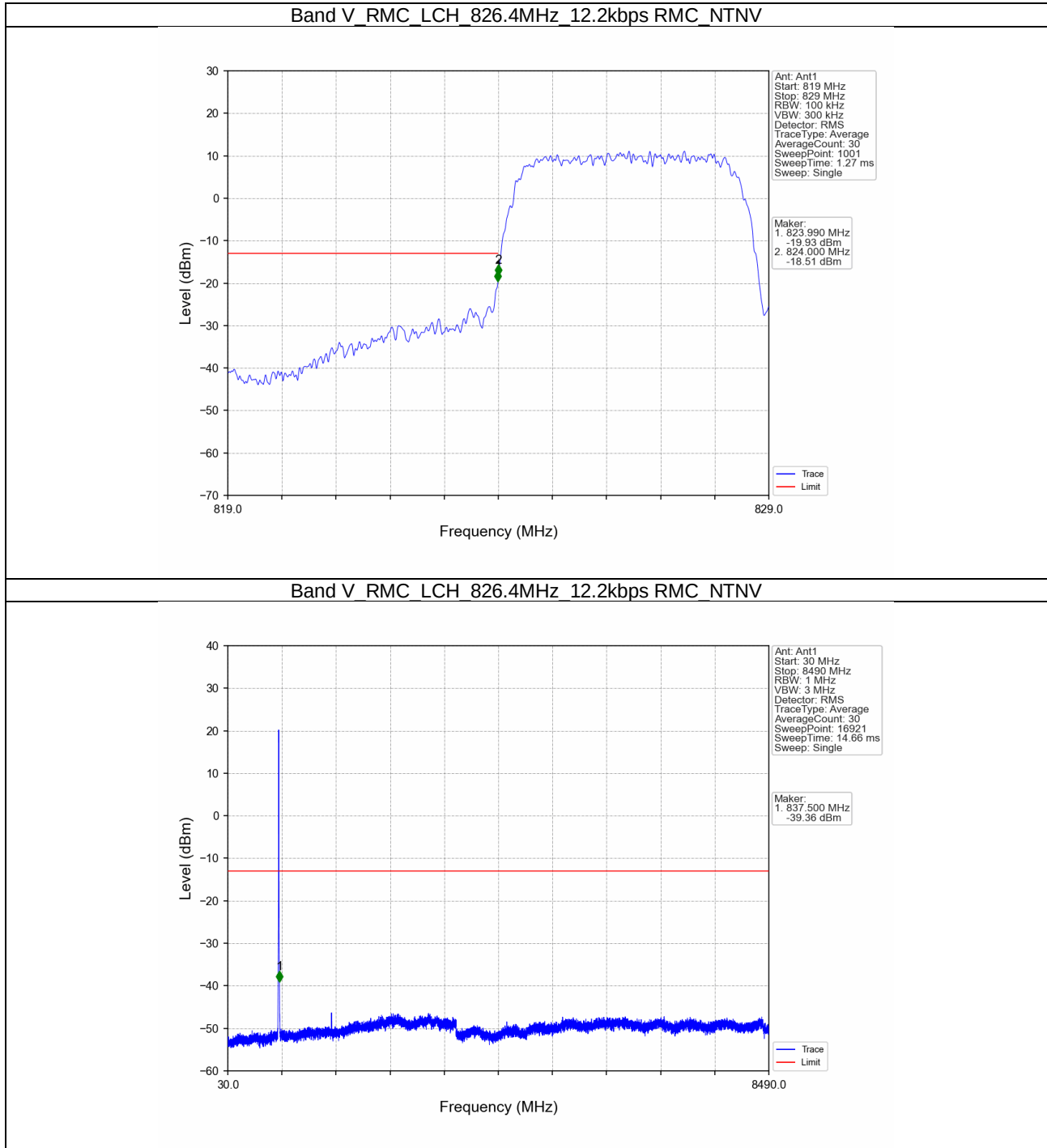
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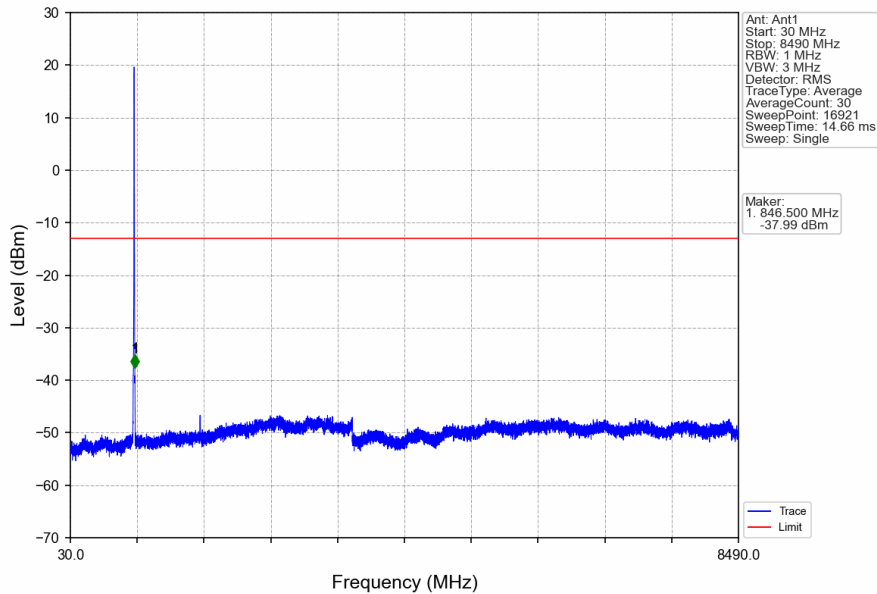
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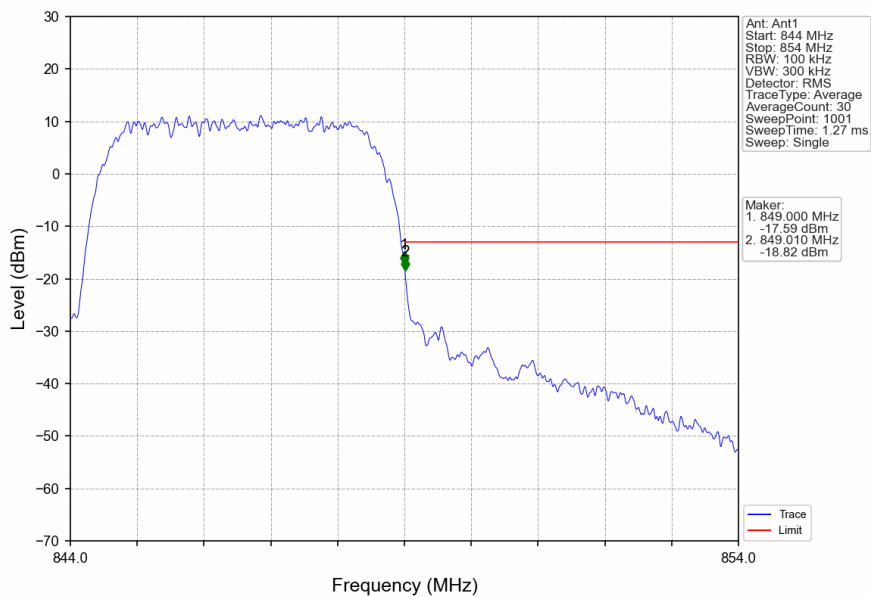
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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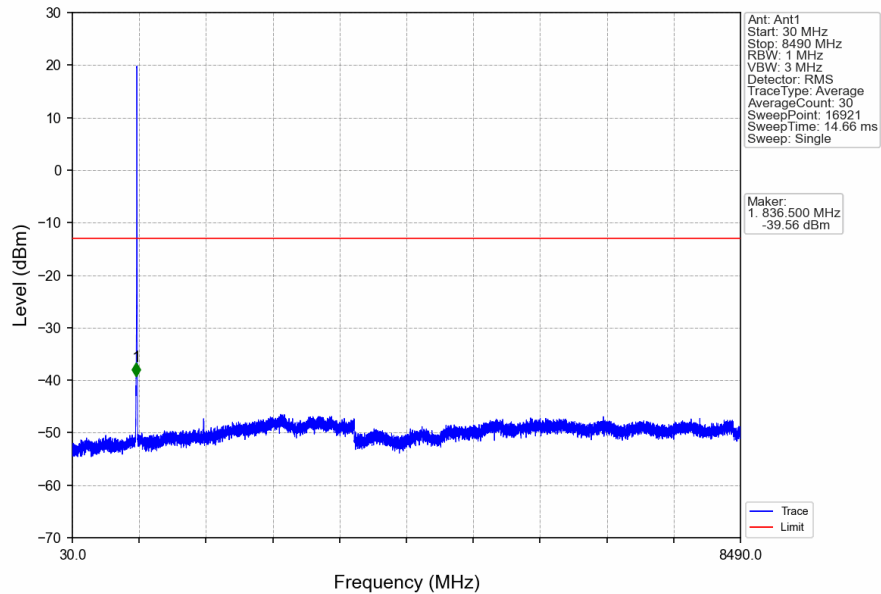
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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Wireless Laboratory

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Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ 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	1654.2222	49.00	-46.65	24.60	-68.31	-13.00	55.31	Horizontal
2	2479.2	38.29	-45.02	27.36	-74.63	-13.00	61.63	Horizontal
3	3305.6	35.37	-43.57	29.56	-73.89	-13.00	60.89	Horizontal
4	4132	34.19	-42.37	31.51	-71.93	-13.00	58.93	Horizontal
5	4958.4	34.39	-41.35	33.11	-69.11	-13.00	56.11	Horizontal
6	5784.8	34.24	-40.24	34.07	-67.19	-13.00	54.19	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2222	47.40	-46.65	24.60	-69.91	-13.00	56.91	Vertical
2	2479.2	37.49	-45.02	27.36	-75.43	-13.00	62.43	Vertical
3	3305.6	34.85	-43.57	29.56	-74.41	-13.00	61.41	Vertical
4	4132	35.15	-42.37	31.51	-70.97	-13.00	57.97	Vertical
5	4958.4	33.42	-41.35	33.11	-70.08	-13.00	57.08	Vertical
6	5784.8	33.81	-40.24	34.07	-67.62	-13.00	54.62	Vertical



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Test Band = WCDMA Band V_ 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	1671.1111	48.87	-46.61	24.60	-68.40	-13.00	55.40	Horizontal
2	2509.2	38.40	-44.95	27.44	-74.37	-13.00	61.37	Horizontal
3	3345.6	35.22	-43.54	29.57	-74.01	-13.00	61.01	Horizontal
4	4182	33.98	-42.36	31.59	-72.05	-13.00	59.05	Horizontal
5	5018.4	33.85	-41.26	33.20	-69.48	-13.00	56.48	Horizontal
6	5854.8	34.03	-40.13	34.31	-67.05	-13.00	54.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.1111	48.27	-46.61	24.60	-69.00	-13.00	56.00	Vertical
2	2509.2	37.48	-44.95	27.44	-75.29	-13.00	62.29	Vertical
3	3345.6	35.27	-43.54	29.57	-73.96	-13.00	60.96	Vertical
4	4182	33.91	-42.36	31.59	-72.12	-13.00	59.12	Vertical
5	5018.4	34.72	-41.26	33.20	-68.61	-13.00	55.61	Vertical
6	5854.8	34.09	-40.13	34.31	-66.99	-13.00	53.99	Vertical



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Test Band = WCDMA Band V_ 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	1691.1111	50.13	-46.55	24.60	-67.08	-13.00	54.08	Horizontal
2	2536.4444	42.75	-44.95	27.55	-69.91	-13.00	56.91	Horizontal
3	3386.4	35.58	-43.51	29.58	-73.61	-13.00	60.61	Horizontal
4	4233	33.83	-42.32	31.67	-72.08	-13.00	59.08	Horizontal
5	5079.6	34.22	-41.28	33.18	-69.13	-13.00	56.13	Horizontal
6	5926.2	33.26	-40.10	34.55	-67.55	-13.00	54.55	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5556	49.21	-46.55	24.60	-68.00	-13.00	55.00	Vertical
2	2536.8889	41.28	-44.95	27.55	-71.38	-13.00	58.38	Vertical
3	3386.4	34.91	-43.51	29.58	-74.28	-13.00	61.28	Vertical
4	4233	34.40	-42.32	31.67	-71.51	-13.00	58.51	Vertical
5	5079.6	34.95	-41.28	33.18	-68.40	-13.00	55.40	Vertical
6	5926.2	33.47	-40.10	34.55	-67.34	-13.00	54.34	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



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Frequency Stability

Band V

Test Result

Band V							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.4	0.951	0.0012	-2.5 to 2.5	Pass
			3.89	0.579	0.0007	-2.5 to 2.5	Pass
			4.48	0.579	0.0007	-2.5 to 2.5	Pass
		-30	3.89	0.644	0.0008	-2.5 to 2.5	Pass
		-20	3.89	0.336	0.0004	-2.5 to 2.5	Pass
		-10	3.89	0.873	0.0011	-2.5 to 2.5	Pass
		0	3.89	0.508	0.0006	-2.5 to 2.5	Pass
		10	3.89	0.787	0.0010	-2.5 to 2.5	Pass
		30	3.89	0.808	0.0010	-2.5 to 2.5	Pass
		40	3.89	0.865	0.0010	-2.5 to 2.5	Pass
		50	3.89	1.209	0.0015	-2.5 to 2.5	Pass
	836.6	20	3.4	-0.072	-0.0001	-2.5 to 2.5	Pass
			3.89	-0.222	-0.0003	-2.5 to 2.5	Pass
			4.48	-0.651	-0.0008	-2.5 to 2.5	Pass
		-30	3.89	0.036	0.0000	-2.5 to 2.5	Pass
		-20	3.89	0.100	0.0001	-2.5 to 2.5	Pass
		-10	3.89	-0.129	-0.0002	-2.5 to 2.5	Pass
		0	3.89	-0.243	-0.0003	-2.5 to 2.5	Pass
		10	3.89	0.179	0.0002	-2.5 to 2.5	Pass
		30	3.89	-0.165	-0.0002	-2.5 to 2.5	Pass
		40	3.89	0.279	0.0003	-2.5 to 2.5	Pass
		50	3.89	0.014	0.0000	-2.5 to 2.5	Pass
	846.6	20	3.4	-0.472	-0.0006	-2.5 to 2.5	Pass
			3.89	-0.579	-0.0007	-2.5 to 2.5	Pass
			4.48	-0.494	-0.0006	-2.5 to 2.5	Pass
		-30	3.89	-0.544	-0.0006	-2.5 to 2.5	Pass
		-20	3.89	-0.508	-0.0006	-2.5 to 2.5	Pass
		-10	3.89	-0.279	-0.0003	-2.5 to 2.5	Pass
		0	3.89	-0.579	-0.0007	-2.5 to 2.5	Pass
		10	3.89	-0.536	-0.0006	-2.5 to 2.5	Pass
		30	3.89	-0.758	-0.0009	-2.5 to 2.5	Pass
		40	3.89	-0.544	-0.0006	-2.5 to 2.5	Pass
		50	3.89	-0.665	-0.0008	-2.5 to 2.5	Pass

---End of Attachment---



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