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Appendix B.3

WCDMA Band V



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1. Effective (Isotropic) Radiated Power Output Data

For report SUCR240400011301:

1.1 Band V_ERP (NPANT002)

1.1.1 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	22.78	3.32	23.95	<=38.45	Pass
			836.6	22.88	3.32	24.05	<=38.45	Pass
			846.6	22.91	3.32	24.08	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

For report SUCR240500014801:

1.2 Band V_ERP(NPANT002)

1.2.1 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	22.40	3.32	23.57	<=38.45	Pass
			836.6	22.40	3.32	23.57	<=38.45	Pass
			846.6	22.48	3.32	23.65	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 Band V

2.1.1 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	3.135	0.274	0.0003	-2.5 to 2.5	Pass
			3.7	0.014	0.0000	-2.5 to 2.5	Pass
			4.4	0.362	0.0004	-2.5 to 2.5	Pass
		-30	3.7	0.038	0.0000	-2.5 to 2.5	Pass
		-20	3.7	0.364	0.0004	-2.5 to 2.5	Pass
		-10	3.7	0.542	0.0007	-2.5 to 2.5	Pass
		0	3.7	0.212	0.0003	-2.5 to 2.5	Pass
		10	3.7	0.476	0.0006	-2.5 to 2.5	Pass
		30	3.7	-0.014	0.0000	-2.5 to 2.5	Pass
		40	3.7	0.127	0.0002	-2.5 to 2.5	Pass
		50	3.7	0.589	0.0007	-2.5 to 2.5	Pass
	836.6	20	3.135	-0.633	-0.0008	-2.5 to 2.5	Pass
			3.7	0.155	0.0002	-2.5 to 2.5	Pass
			4.4	0.329	0.0004	-2.5 to 2.5	Pass
		-30	3.7	-0.475	-0.0006	-2.5 to 2.5	Pass
		-20	3.7	-0.874	-0.0010	-2.5 to 2.5	Pass
		-10	3.7	-0.564	-0.0007	-2.5 to 2.5	Pass
		0	3.7	-0.433	-0.0005	-2.5 to 2.5	Pass
		10	3.7	-0.330	-0.0004	-2.5 to 2.5	Pass
		30	3.7	-0.687	-0.0008	-2.5 to 2.5	Pass
		40	3.7	-0.152	-0.0002	-2.5 to 2.5	Pass
		50	3.7	-0.503	-0.0006	-2.5 to 2.5	Pass
	846.6	20	3.135	-0.865	-0.0010	-2.5 to 2.5	Pass
			3.7	-0.655	-0.0008	-2.5 to 2.5	Pass
			4.4	-0.598	-0.0007	-2.5 to 2.5	Pass
		-30	3.7	-1.030	-0.0012	-2.5 to 2.5	Pass
		-20	3.7	-0.553	-0.0007	-2.5 to 2.5	Pass
		-10	3.7	-0.518	-0.0006	-2.5 to 2.5	Pass
		0	3.7	-0.479	-0.0006	-2.5 to 2.5	Pass
		10	3.7	-0.788	-0.0009	-2.5 to 2.5	Pass
		30	3.7	-0.216	-0.0003	-2.5 to 2.5	Pass
		40	3.7	-0.286	-0.0003	-2.5 to 2.5	Pass
		50	3.7	-0.569	-0.0007	-2.5 to 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 Band V_OBW

3.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.162	/	Pass
			836.6	4.157	/	Pass
			846.6	4.160	/	Pass



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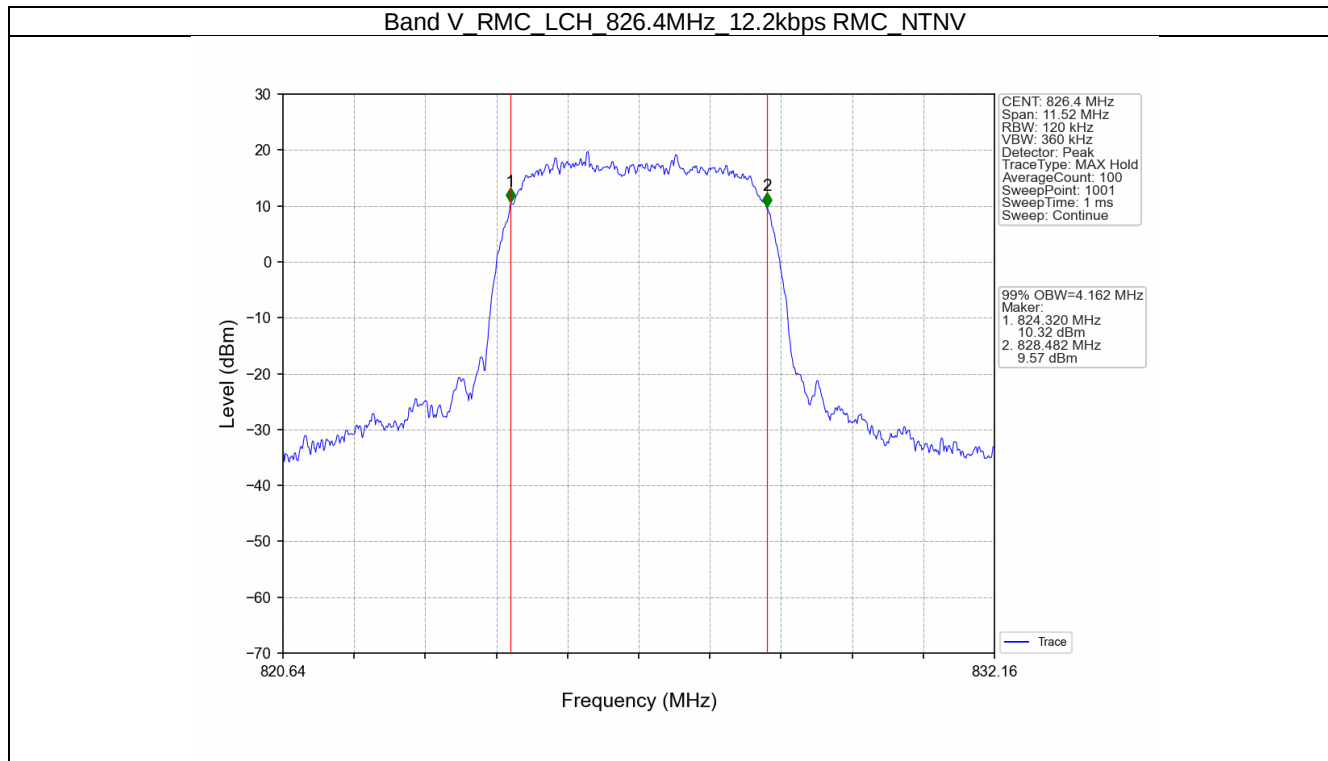
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3.1.2 Test Graph



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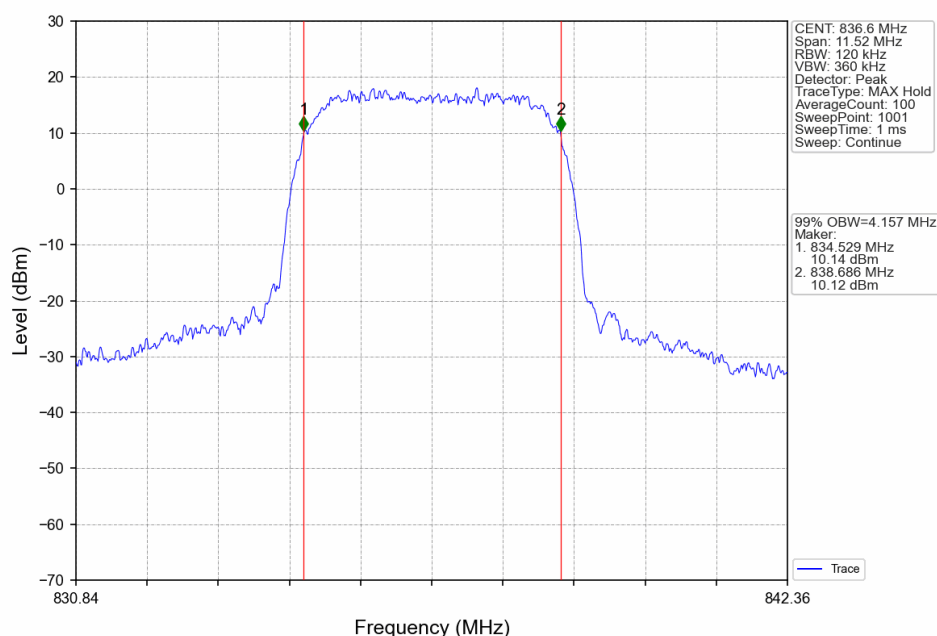
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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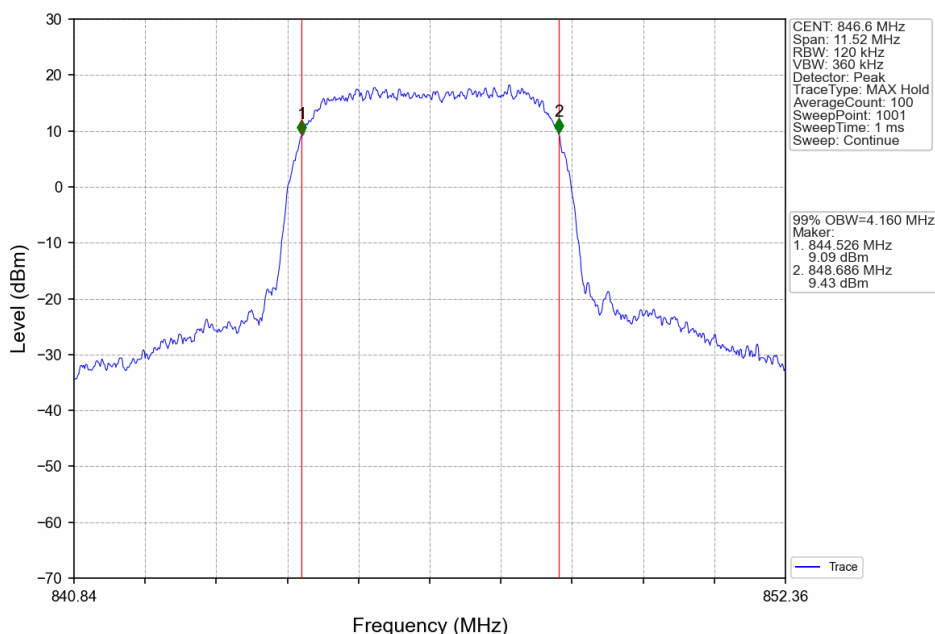
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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3.2 Band V_XDB

3.2.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.765	/	Pass
			836.6	4.770	/	Pass
			846.6	4.753	/	Pass



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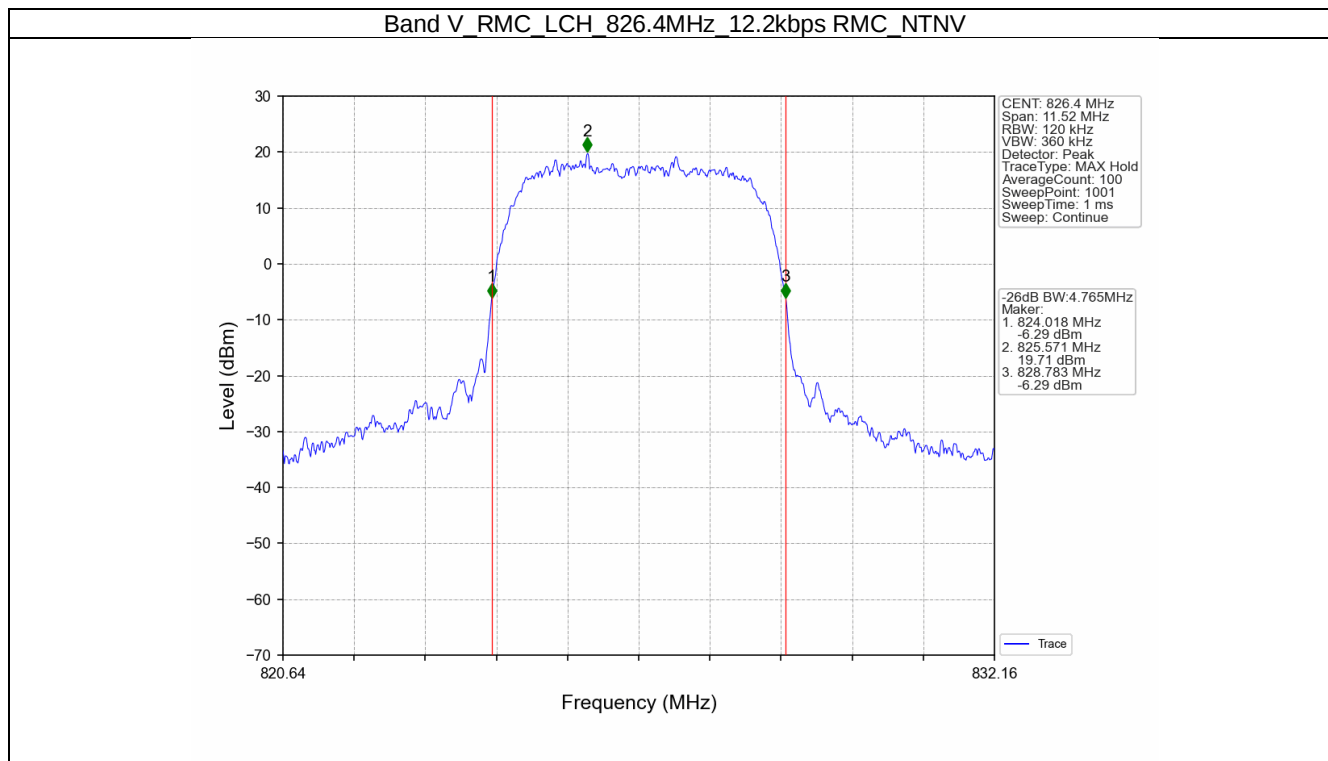
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3.2.2 Test Graph



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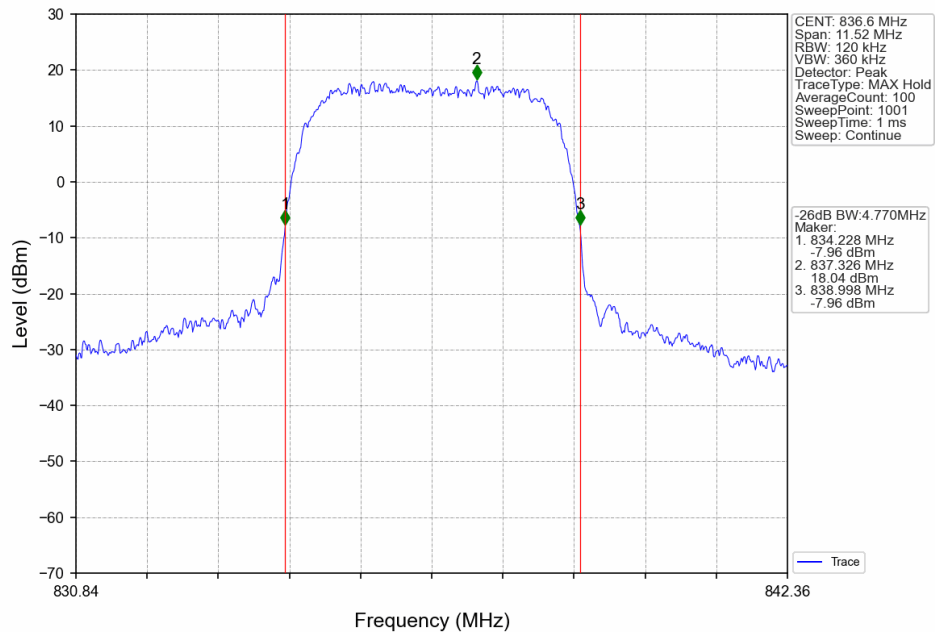
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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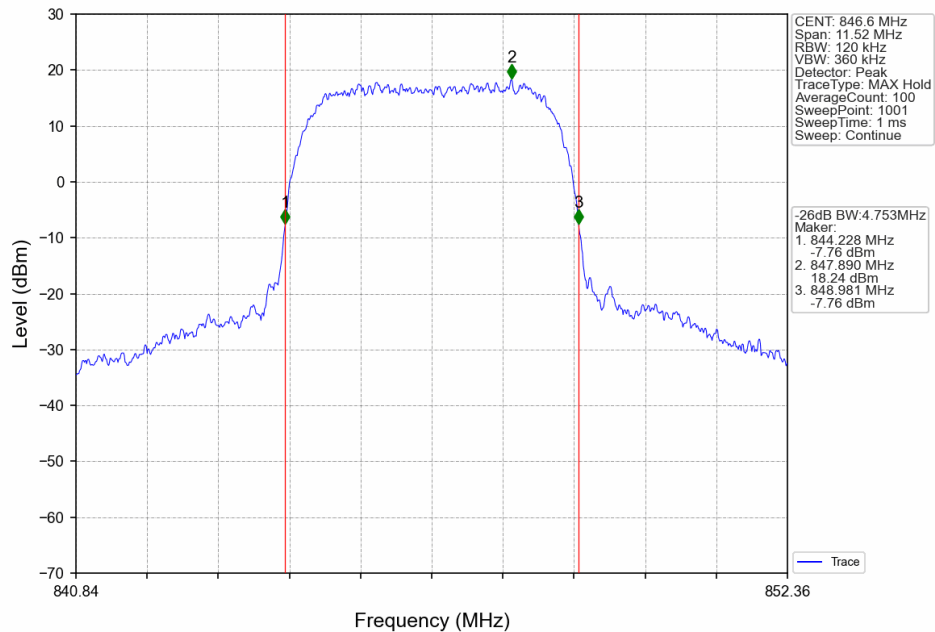
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4. Peak-Average Ratio

4.1 Band V

4.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.82	<=13	Pass
			836.6	2.85	<=13	Pass
			846.6	2.83	<=13	Pass



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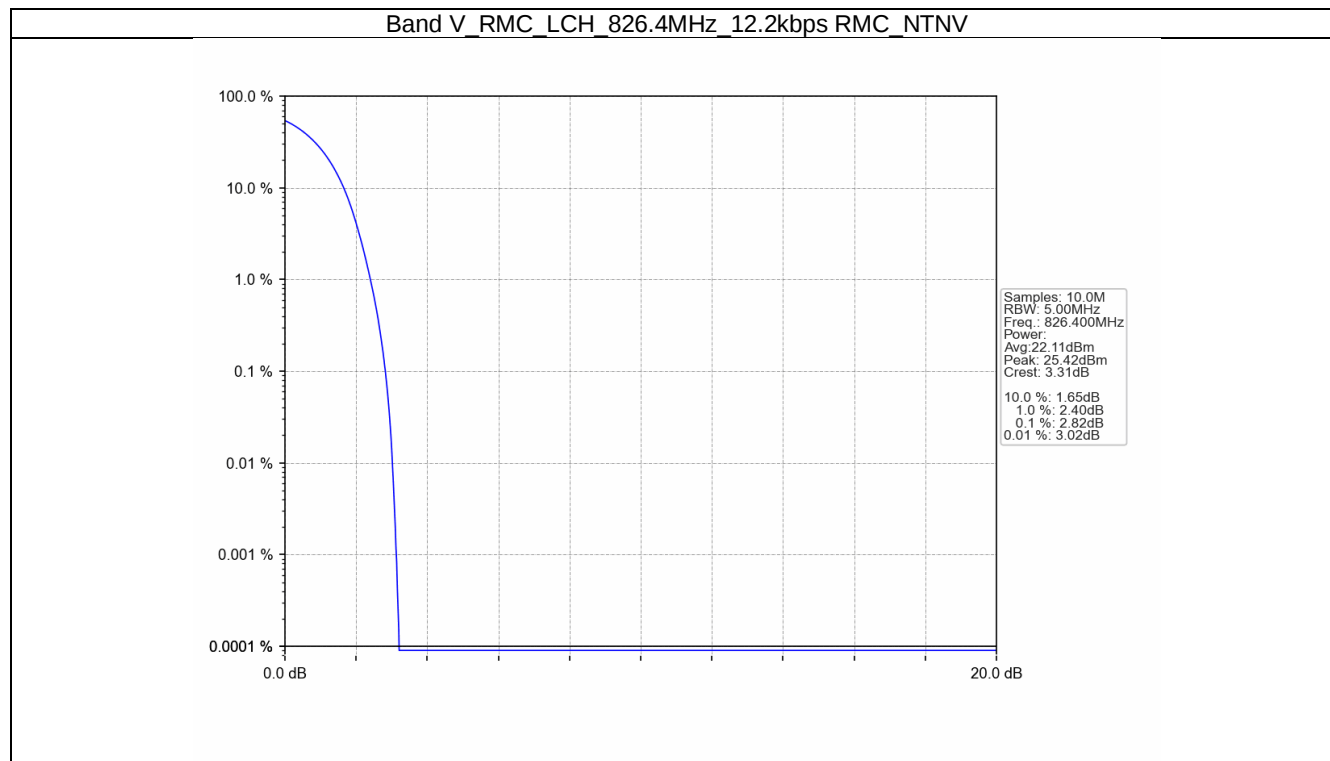
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4.1.2 Test Graph



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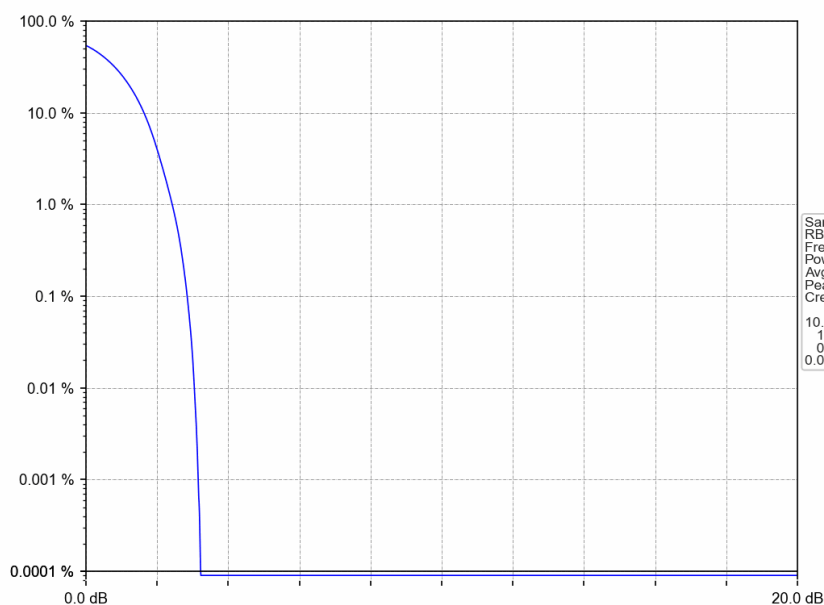
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 836.600MHz
Power:
Avg: 21.69dBm
Peak: 24.95dBm
Crest: 3.26dB

10.0 %: 1.63dB
1.0 %: 2.43dB
0.1 %: 2.85dB
0.01 %: 3.05dB



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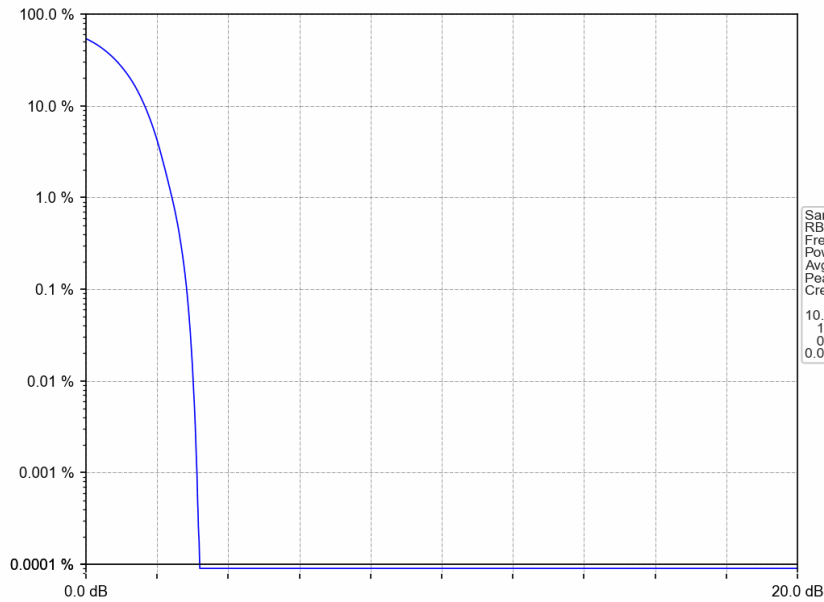
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Samples: 10.0M
RBW: 5.00MHz
Freq.: 846.600MHz
Power:
Avg: 21.92dBm
Peak: 25.19dBm
Crest: 3.27dB

10.0 %: 1.65dB
1.0 %: 2.42dB
0.1 %: 2.83dB
0.01 %: 3.02dB



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5. Spurious Emission & Band Edge

5.1 Band V

5.1.1 Test Result

Band V					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	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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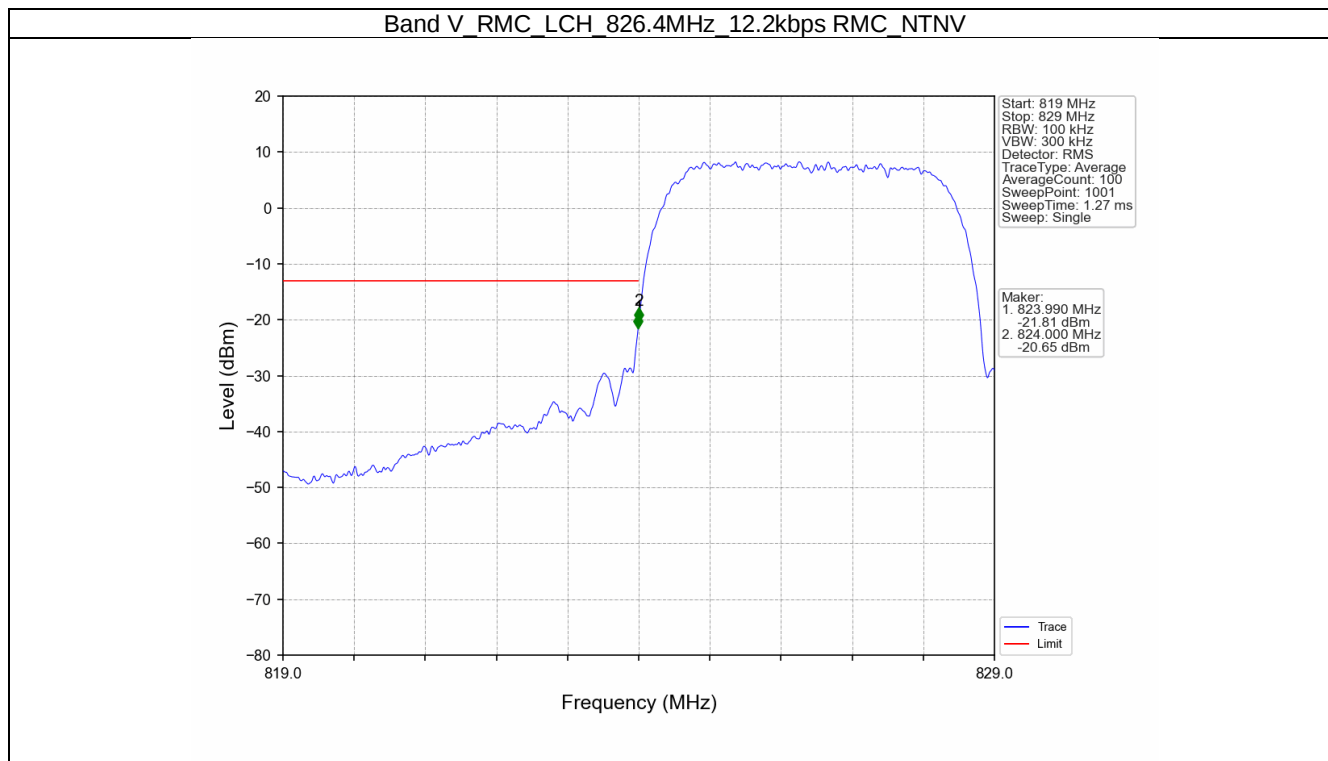
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5.1.2 Test Graph



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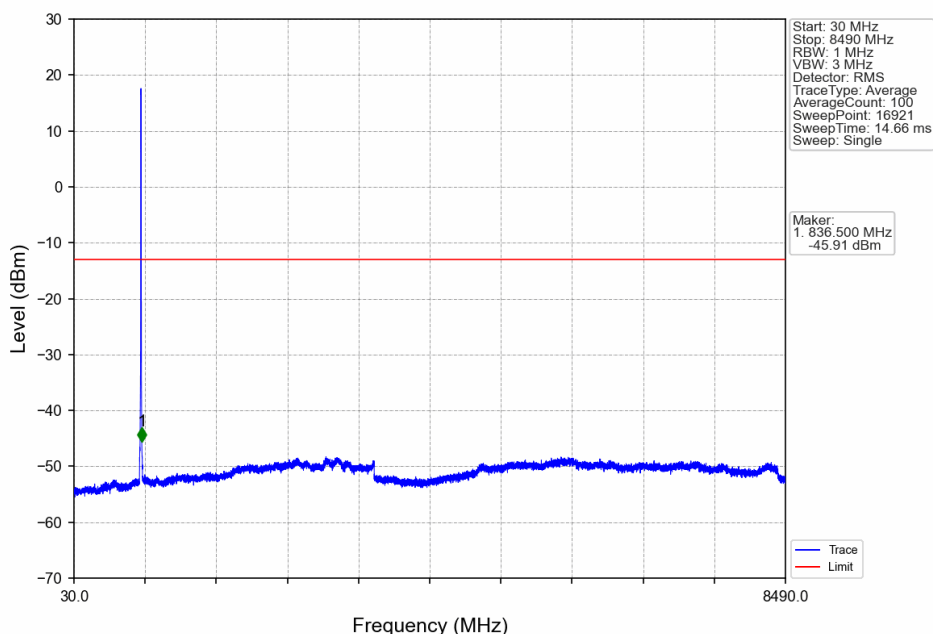
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Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



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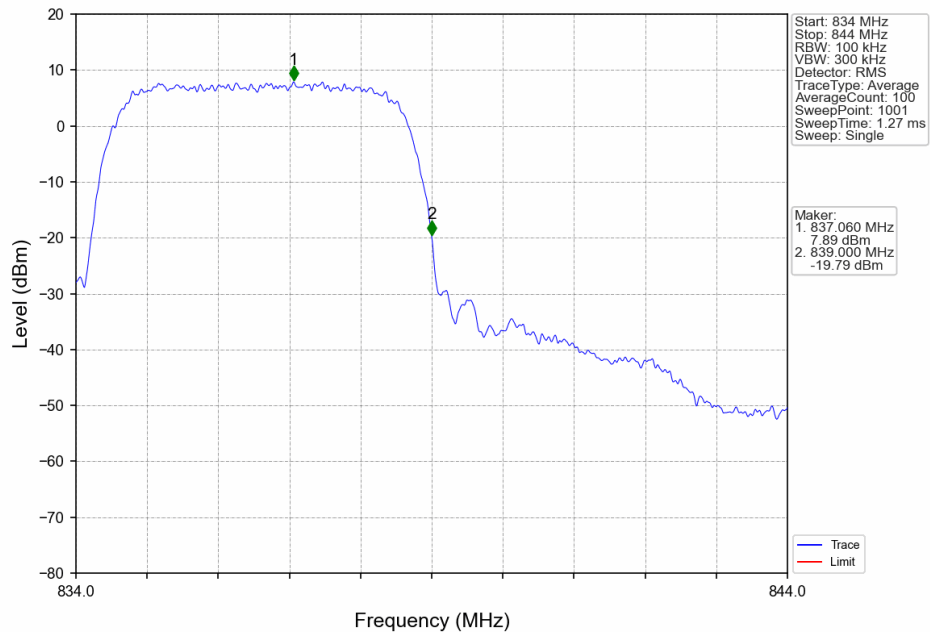
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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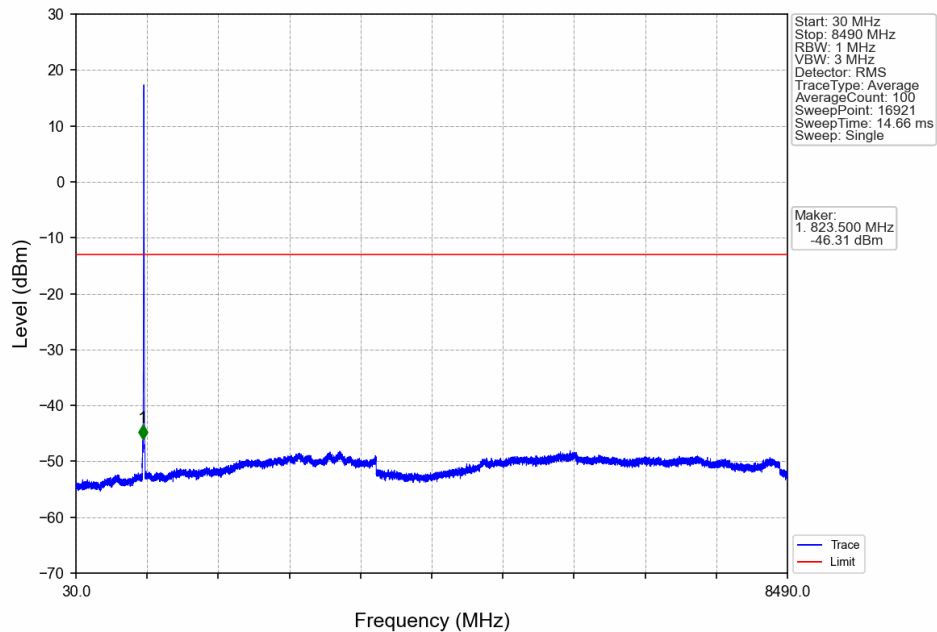
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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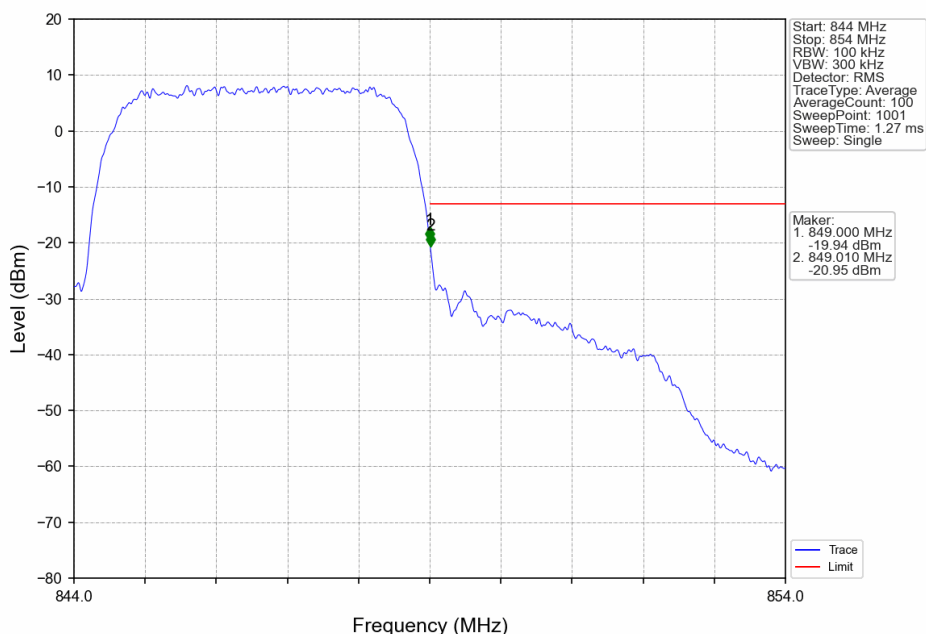
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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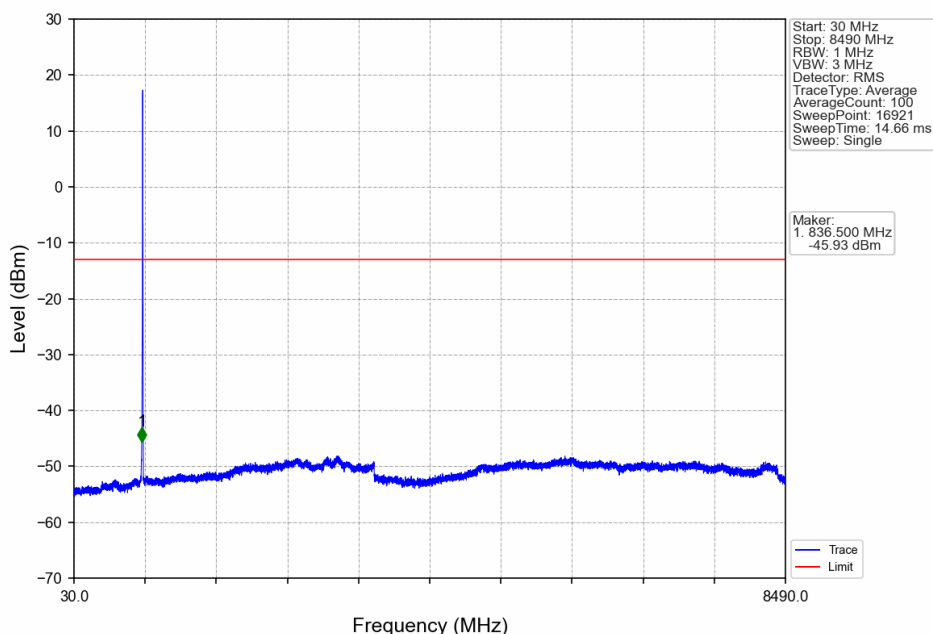
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6. Field Strength of Spurious Radiation

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	1652.8	40.58	-46.65	24.60	-76.73	-13.00	63.73	Horizontal
2	2479.2	37.78	-45.02	27.36	-75.14	-13.00	62.14	Horizontal
3	3305.6	35.88	-43.57	29.56	-73.38	-13.00	60.38	Horizontal
4	4132	35.62	-42.37	31.51	-70.50	-13.00	57.50	Horizontal
5	4958.4	34.57	-41.35	33.11	-68.93	-13.00	55.93	Horizontal
6	5784.8	33.60	-40.24	34.07	-67.83	-13.00	54.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8	39.98	-46.65	24.60	-77.33	-13.00	64.33	Vertical
2	2479.2	36.53	-45.02	27.36	-76.39	-13.00	63.39	Vertical
3	3305.6	35.68	-43.57	29.56	-73.58	-13.00	60.58	Vertical
4	4132	34.78	-42.37	31.51	-71.34	-13.00	58.34	Vertical
5	4958.4	34.25	-41.35	33.11	-69.25	-13.00	56.25	Vertical
6	5784.8	33.32	-40.24	34.07	-68.11	-13.00	55.11	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	1672.8	40.46	-46.60	24.60	-76.80	-13.00	63.80	Horizontal
2	2509.2	36.97	-44.95	27.44	-75.80	-13.00	62.80	Horizontal
3	3345.6	35.72	-43.54	29.57	-73.51	-13.00	60.51	Horizontal
4	4182	34.66	-42.36	31.59	-71.37	-13.00	58.37	Horizontal
5	5018.4	34.99	-41.26	33.20	-68.34	-13.00	55.34	Horizontal
6	5854.8	33.51	-40.13	34.31	-67.57	-13.00	54.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	39.93	-46.60	24.60	-77.33	-13.00	64.33	Vertical
2	2509.2	36.46	-44.95	27.44	-76.31	-13.00	63.31	Vertical
3	3345.6	35.46	-43.54	29.57	-73.77	-13.00	60.77	Vertical
4	4182	34.33	-42.36	31.59	-71.70	-13.00	58.70	Vertical
5	5018.4	34.41	-41.26	33.20	-68.92	-13.00	55.92	Vertical
6	5854.8	32.65	-40.13	34.31	-68.43	-13.00	55.43	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	1693.2	40.19	-46.55	24.60	-77.02	-13.00	64.02	Horizontal
2	2539.8	37.44	-44.95	27.57	-75.21	-13.00	62.21	Horizontal
3	3386.4	35.56	-43.51	29.58	-73.63	-13.00	60.63	Horizontal
4	4233	35.29	-42.32	31.67	-70.62	-13.00	57.62	Horizontal
5	5079.6	35.10	-41.28	33.18	-68.25	-13.00	55.25	Horizontal
6	5926.2	32.91	-40.10	34.55	-67.90	-13.00	54.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2	39.59	-46.55	24.60	-77.62	-13.00	64.62	Vertical
2	2539.8	37.04	-44.95	27.57	-75.61	-13.00	62.61	Vertical
3	3386.4	35.26	-43.51	29.58	-73.93	-13.00	60.93	Vertical
4	4233	33.46	-42.32	31.67	-72.45	-13.00	59.45	Vertical
5	5079.6	33.75	-41.28	33.18	-69.60	-13.00	56.60	Vertical
6	5926.2	32.48	-40.10	34.55	-68.33	-13.00	55.33	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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