



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZCR240400116001

Rev.: 01

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Appendix B.5

WCDMA Band V



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERP

1.1.1 Test Result

Ant11

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	23.77	-5.61	16.01	<=38.45	Pass
			836.6	23.73	-5.61	15.97	<=38.45	Pass
			846.6	23.65	-5.61	15.89	<=38.45	Pass



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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	3.7	0.960	0.0012	-2.5 to 2.5	Pass
			3.91	1.113	0.0013	-2.5 to 2.5	Pass
			4.4	1.086	0.0013	-2.5 to 2.5	Pass
		-30	3.91	0.773	0.0009	-2.5 to 2.5	Pass
		-20	3.91	0.806	0.0010	-2.5 to 2.5	Pass
		-10	3.91	0.704	0.0009	-2.5 to 2.5	Pass
		0	3.91	1.228	0.0015	-2.5 to 2.5	Pass
		10	3.91	0.750	0.0009	-2.5 to 2.5	Pass
		30	3.91	1.172	0.0014	-2.5 to 2.5	Pass
		40	3.91	0.736	0.0009	-2.5 to 2.5	Pass
		50	3.91	1.376	0.0017	-2.5 to 2.5	Pass
	836.6	20	3.7	-0.548	-0.0007	-2.5 to 2.5	Pass
			3.91	-0.026	0.0000	-2.5 to 2.5	Pass
			4.4	-0.153	-0.0002	-2.5 to 2.5	Pass
		-30	3.91	-0.245	-0.0003	-2.5 to 2.5	Pass
		-20	3.91	-0.305	-0.0004	-2.5 to 2.5	Pass
		-10	3.91	-0.204	-0.0002	-2.5 to 2.5	Pass
		0	3.91	-0.363	-0.0004	-2.5 to 2.5	Pass
		10	3.91	-0.180	-0.0002	-2.5 to 2.5	Pass
		30	3.91	-0.227	-0.0003	-2.5 to 2.5	Pass
		40	3.91	-0.125	-0.0001	-2.5 to 2.5	Pass
		50	3.91	-0.211	-0.0003	-2.5 to 2.5	Pass
	846.6	20	3.7	-1.299	-0.0015	-2.5 to 2.5	Pass
			3.91	-1.062	-0.0013	-2.5 to 2.5	Pass
			4.4	-0.837	-0.0010	-2.5 to 2.5	Pass
		-30	3.91	-1.309	-0.0015	-2.5 to 2.5	Pass
		-20	3.91	-0.766	-0.0009	-2.5 to 2.5	Pass
		-10	3.91	-0.460	-0.0005	-2.5 to 2.5	Pass
		0	3.91	-1.151	-0.0014	-2.5 to 2.5	Pass
		10	3.91	-1.421	-0.0017	-2.5 to 2.5	Pass
		30	3.91	-1.251	-0.0015	-2.5 to 2.5	Pass
		40	3.91	-1.102	-0.0013	-2.5 to 2.5	Pass
		50	3.91	-1.233	-0.0015	-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	4.153	/	Pass
			836.6	4.148	/	Pass
			846.6	4.157	/	Pass



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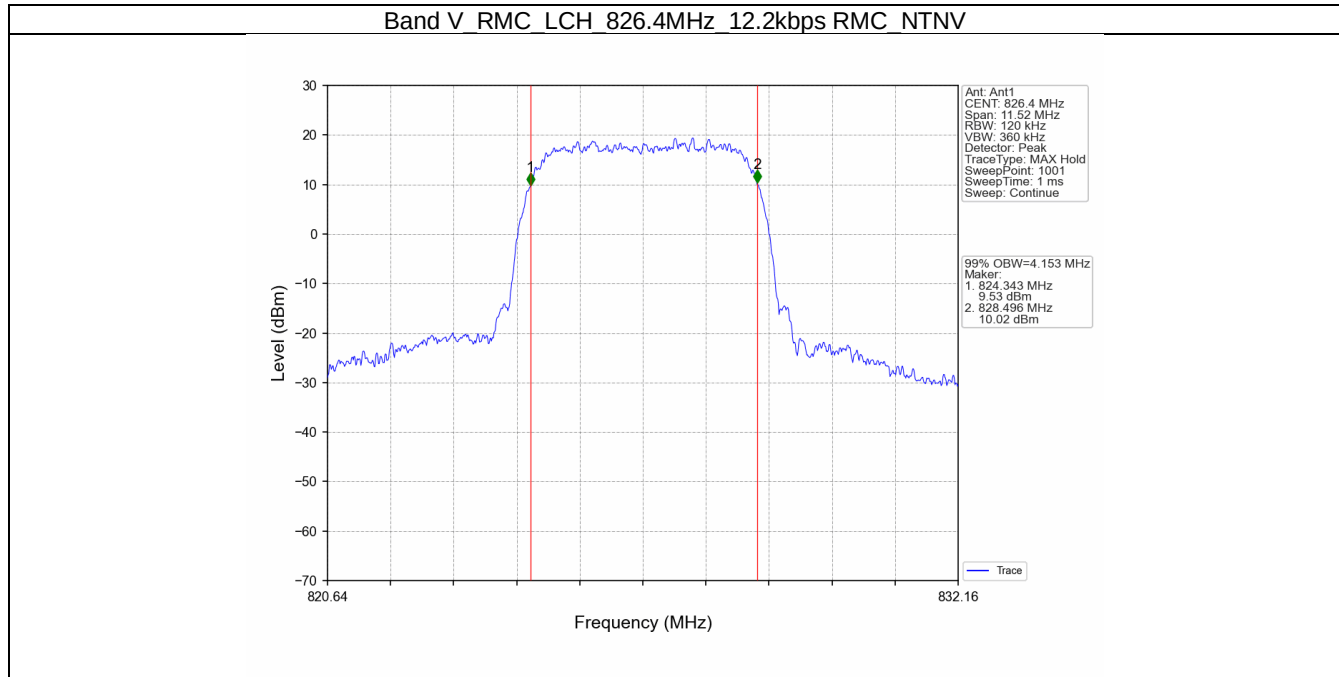
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3.1.2 Test Graph



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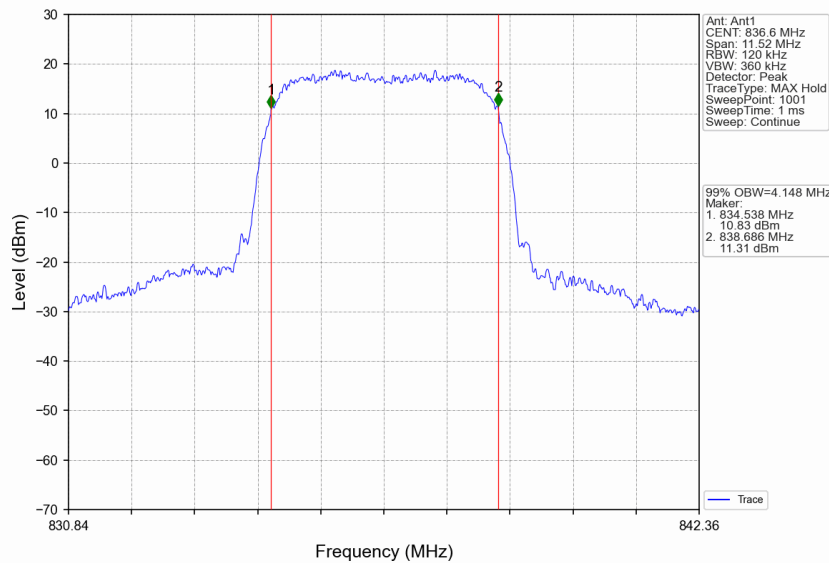
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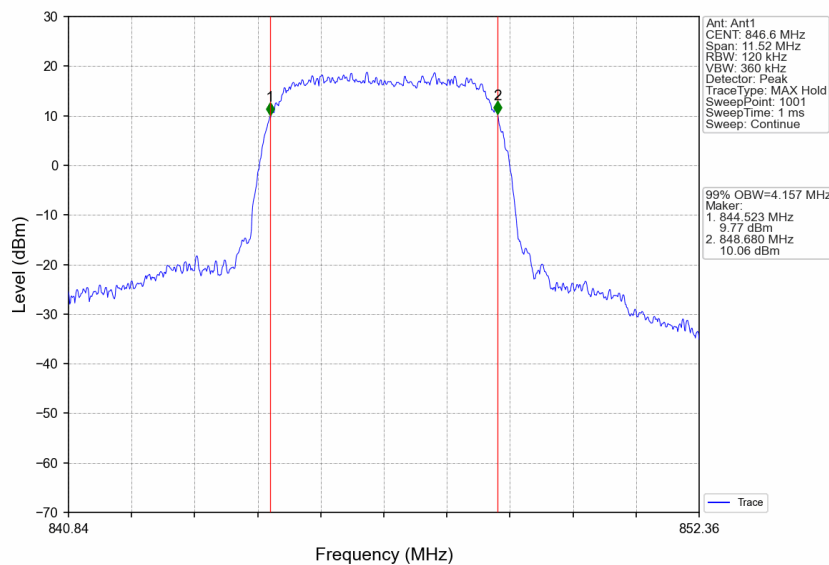
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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	4.753	/	Pass
			836.6	4.757	/	Pass
			846.6	4.769	/	Pass



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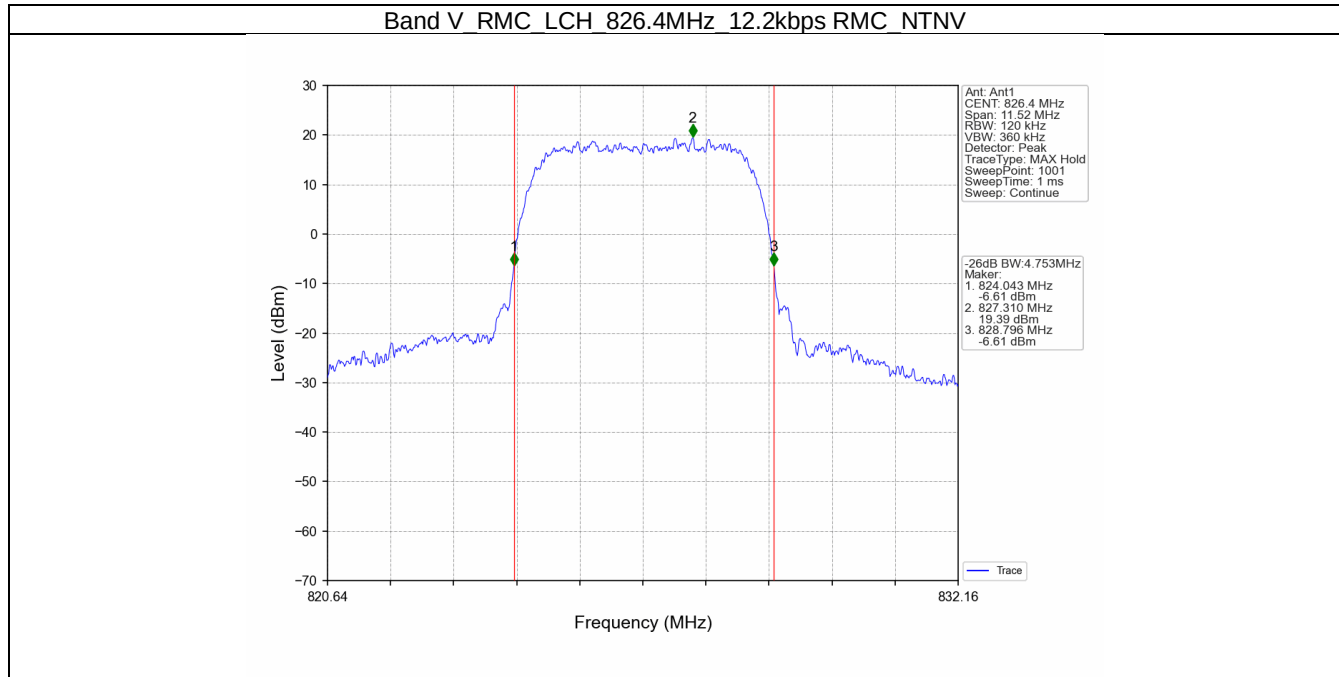
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3.2.2 Test Graph



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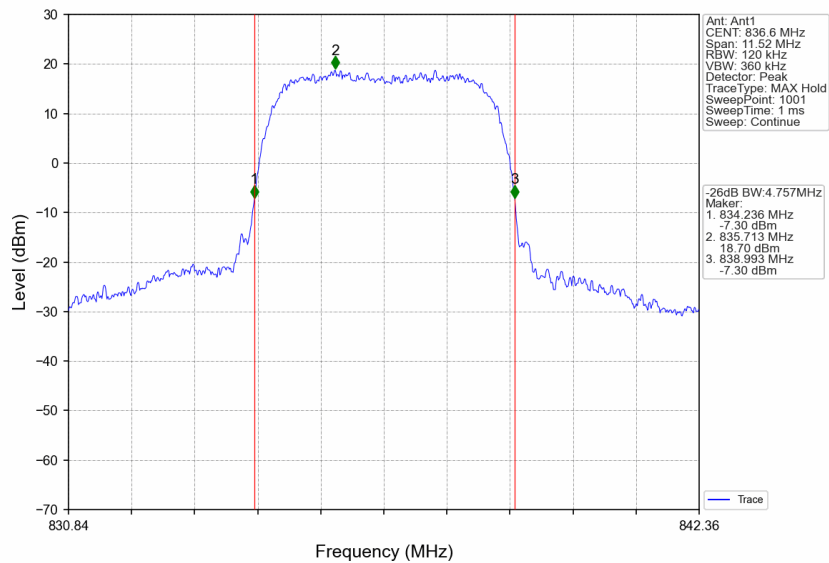
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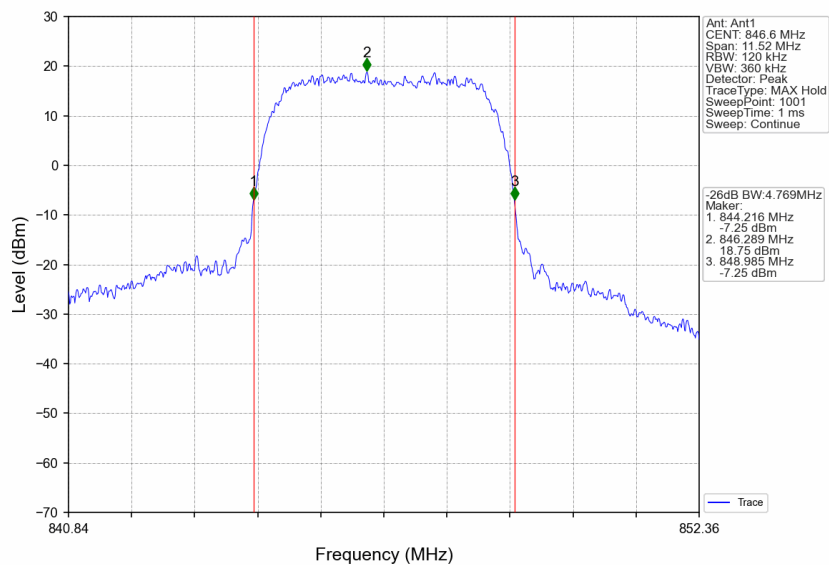
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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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	3.05	<=13	Pass
			836.6	2.94	<=13	Pass
			846.6	2.94	<=13	Pass



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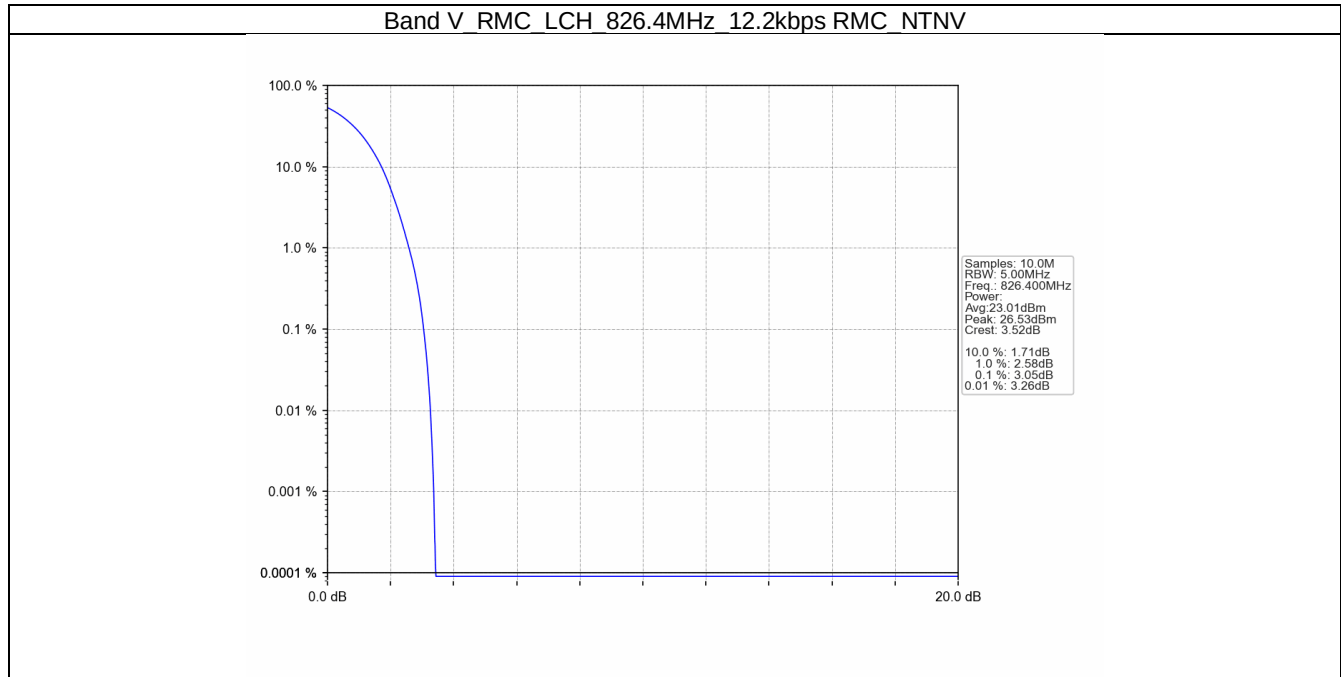
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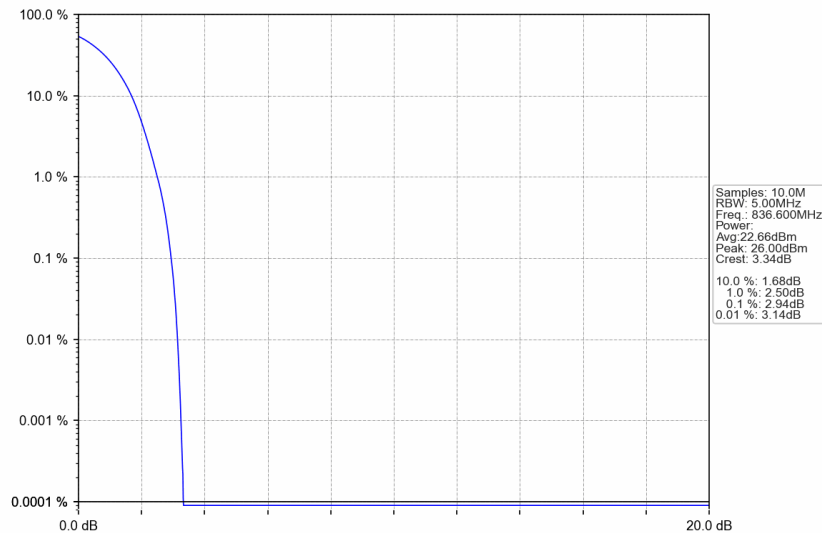
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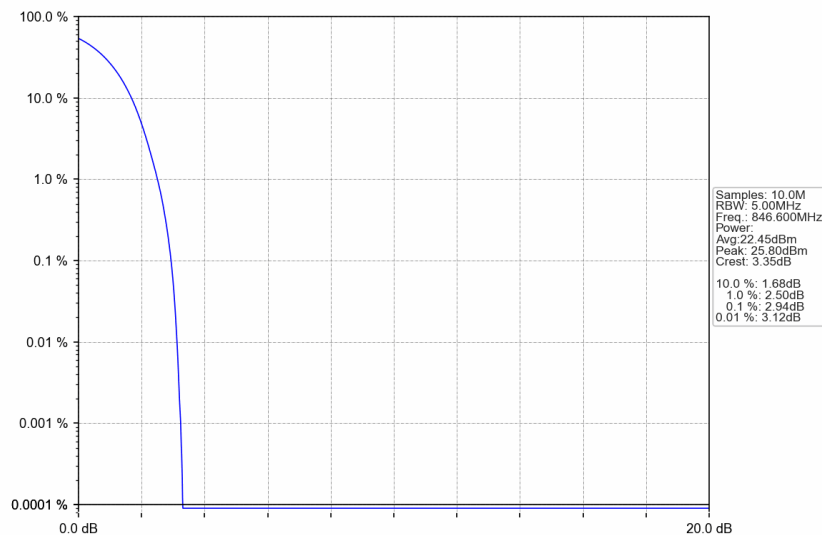
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Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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5. Spurious Emission & Band Edges

5.1 Band V

5.1.1 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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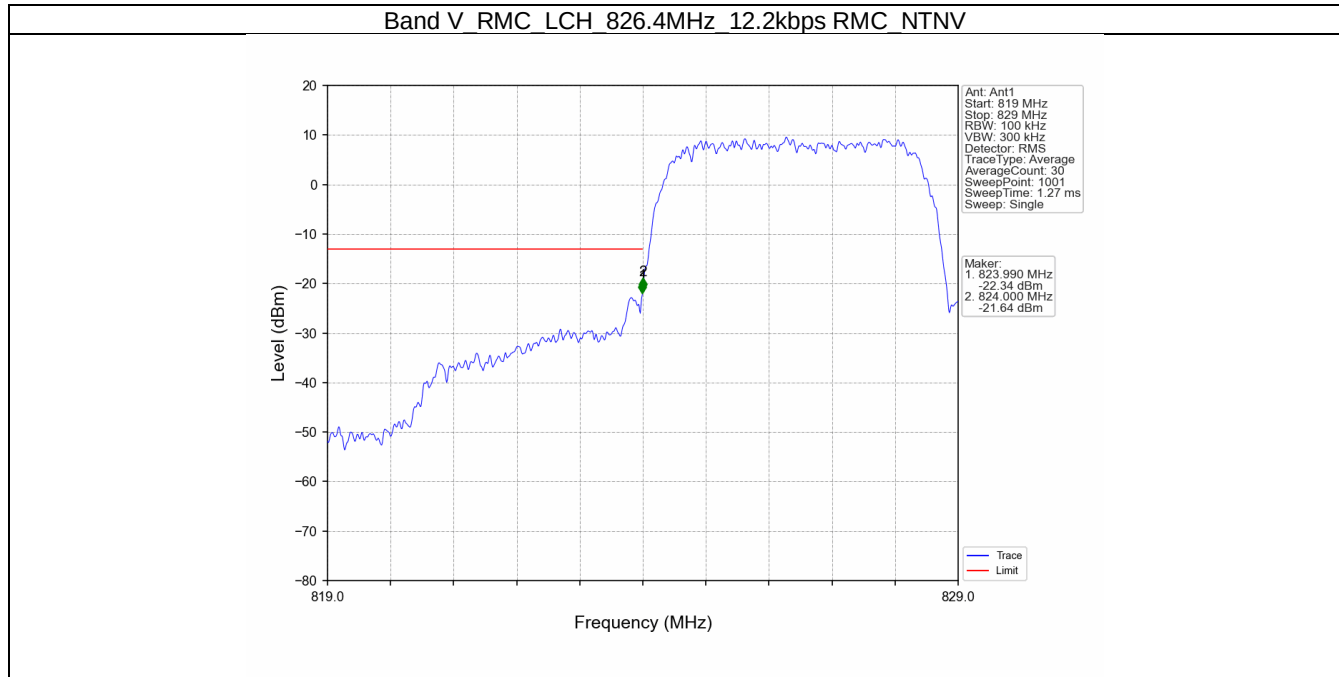
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5.1.2 Test Graph



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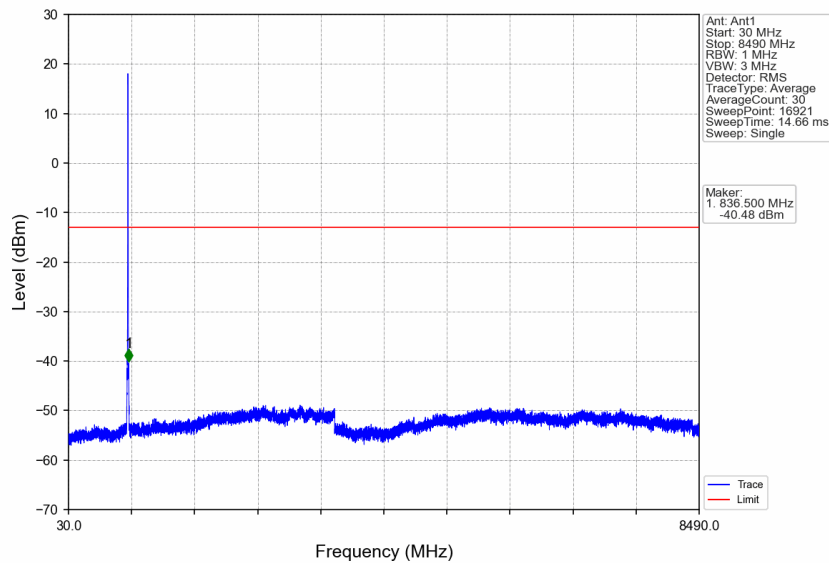
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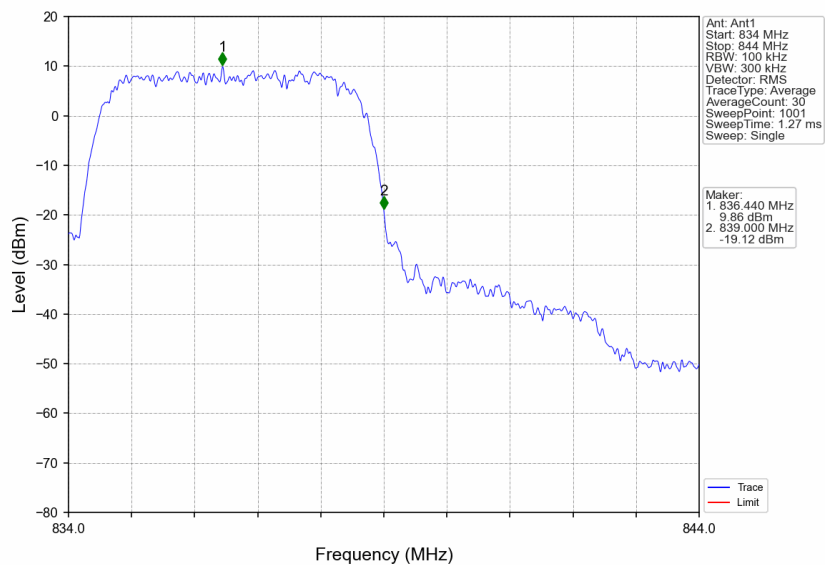
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Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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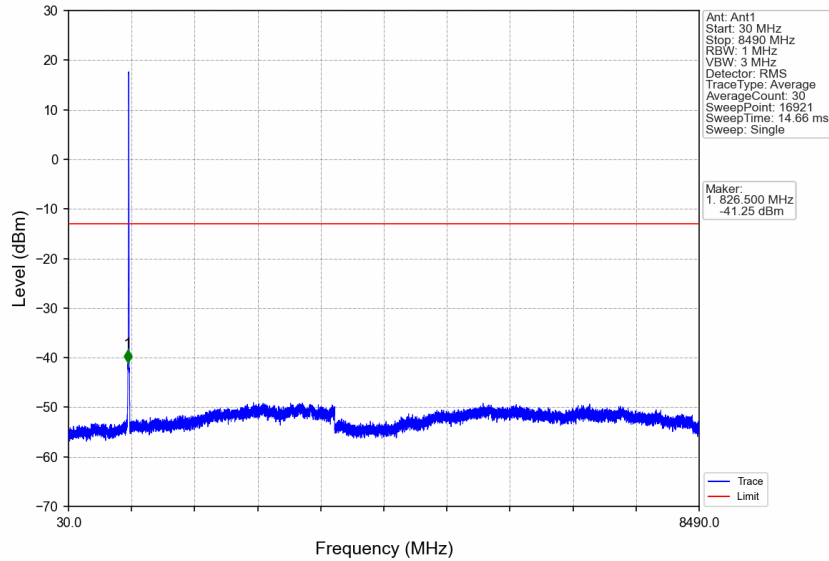


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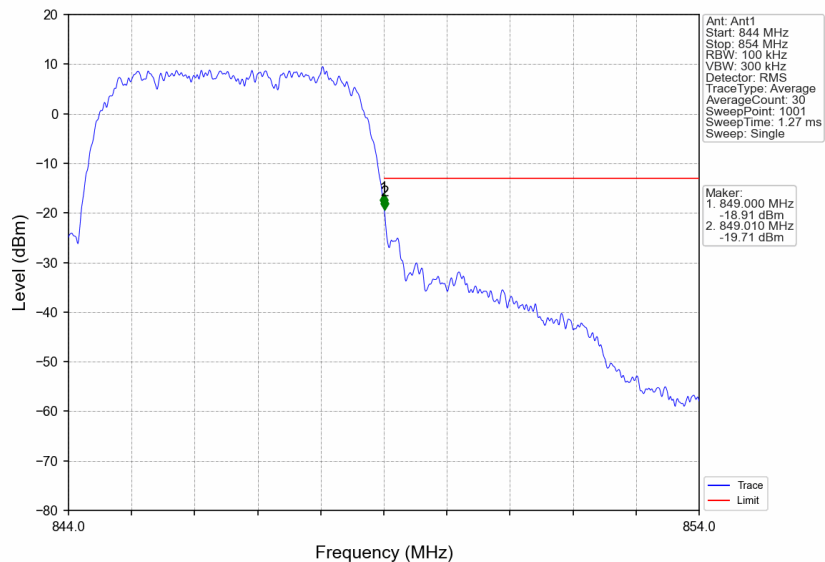
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Band V RMC HCH 846.6MHz 12.2kbps RMC NTN



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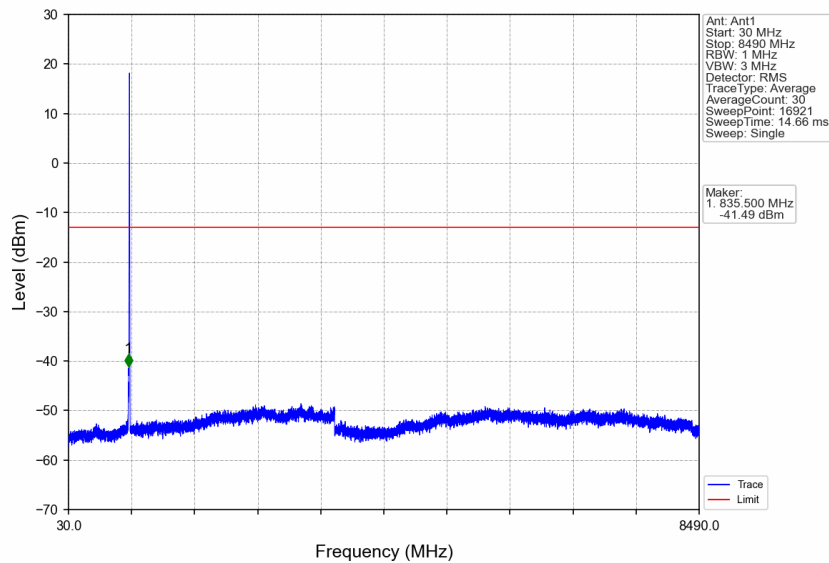
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Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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6. Field Strength of Spurious Radiation

Test Band = BV ANT13_ TM1

Test Channel = low

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	46.59	24.91	-48.84	-72.60	-13.00	59.60	Horizontal
2	2479.2000	44.18	27.35	-47.86	-71.59	-13.00	58.59	Horizontal
3	3305.6000	44.27	28.66	-47.16	-69.49	-13.00	56.49	Horizontal
4	4132.0000	44.38	29.69	-47.45	-68.64	-13.00	55.64	Horizontal
5	4958.4000	43.96	31.30	-46.97	-66.97	-13.00	53.97	Horizontal
6	5784.8000	44.05	32.49	-46.98	-65.70	-13.00	52.70	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	45.77	24.91	-48.84	-73.42	-13.00	60.42	Vertical
2	2479.2000	44.97	27.35	-47.86	-70.80	-13.00	57.80	Vertical
3	3305.6000	44.72	28.66	-47.16	-69.04	-13.00	56.04	Vertical
4	4132.0000	44.03	29.69	-47.45	-68.99	-13.00	55.99	Vertical
5	4958.4000	44.11	31.30	-46.97	-66.82	-13.00	53.82	Vertical
6	5784.8000	44.09	32.49	-46.98	-65.66	-13.00	52.66	Vertical



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Test Band = BV ANT13_ TM1
Test Channel = mid

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	45.88	24.95	-48.81	-73.24	-13.00	60.24	Horizontal
2	2509.2000	44.63	27.42	-47.79	-71.00	-13.00	58.00	Horizontal
3	3345.6000	45.09	28.67	-47.25	-68.75	-13.00	55.75	Horizontal
4	4182.0000	44.40	29.76	-47.21	-68.31	-13.00	55.31	Horizontal
5	5018.4000	44.03	31.44	-46.97	-66.76	-13.00	53.76	Horizontal
6	5854.8000	43.71	32.46	-46.54	-65.63	-13.00	52.63	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	45.69	24.95	-48.81	-73.43	-13.00	60.43	Vertical
2	2509.2000	44.54	27.42	-47.79	-71.09	-13.00	58.09	Vertical
3	3345.6000	44.41	28.67	-47.25	-69.43	-13.00	56.43	Vertical
4	4182.0000	43.98	29.76	-47.21	-68.73	-13.00	55.73	Vertical
5	5018.4000	44.71	31.44	-46.97	-66.08	-13.00	53.08	Vertical
6	5854.8000	44.06	32.46	-46.54	-65.28	-13.00	52.28	Vertical



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Test Band = BV ANT13_ TM1
Test Channel = high

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	45.22	24.99	-48.78	-73.83	-13.00	60.83	Horizontal
2	2539.8000	44.82	27.50	-47.88	-70.82	-13.00	57.82	Horizontal
3	3386.4000	44.69	28.68	-47.33	-69.22	-13.00	56.22	Horizontal
4	4233.0000	44.28	29.83	-47.11	-68.26	-13.00	55.26	Horizontal
5	5079.6000	44.69	31.59	-47.05	-66.03	-13.00	53.03	Horizontal
6	5926.2000	44.05	32.43	-46.38	-65.16	-13.00	52.16	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	45.08	24.99	-48.78	-73.97	-13.00	60.97	Vertical
2	2539.8000	44.52	27.50	-47.88	-71.12	-13.00	58.12	Vertical
3	3386.4000	44.20	28.68	-47.33	-69.71	-13.00	56.71	Vertical
4	4233.0000	44.34	29.83	-47.11	-68.20	-13.00	55.20	Vertical
5	5079.6000	44.44	31.59	-47.05	-66.28	-13.00	53.28	Vertical
6	5926.2000	43.67	32.43	-46.38	-65.54	-13.00	52.54	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

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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