Appendix B.1

WCDMA Band V

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band V_ERP

1.1.1 Test ResultAnt1

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	24.02	0.36	22.23	<=38.45	Pass
			836.6	24.13	0.36	22.34	<=38.45	Pass
			846.6	24.26	0.36	22.47	<=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	10.8	-1.801	-0.0022	-2.5 to 2.5	Pass
			12	-2.113	-0.0026	-2.5 to 2.5	Pass
			13.2	-1.756	-0.0021	-2.5 to 2.5	Pass
		-30	12	-1.606	-0.0019	-2.5 to 2.5	Pass
		-20	12	-1.744	-0.0021	-2.5 to 2.5	Pass
		-10	12	-1.816	-0.0022	-2.5 to 2.5	Pass
		0	12	-1.814	-0.0022	-2.5 to 2.5	Pass
		10	12	-1.852	-0.0022	-2.5 to 2.5	Pass
		30	12	-1.718	-0.0021	-2.5 to 2.5	Pass
		40	12	-1.700	-0.0021	-2.5 to 2.5	Pass
		50	12	-1.904	-0.0023	-2.5 to 2.5	Pass
	836.6	20	10.8	-0.892	-0.0011	-2.5 to 2.5	Pass
			12	-0.444	-0.0005	-2.5 to 2.5	Pass
			13.2	-0.806	-0.0010	-2.5 to 2.5	Pass
		-30	12	-1.039	-0.0012	-2.5 to 2.5	Pass
		-20	12	-0.729	-0.0009	-2.5 to 2.5	Pass
		-10	12	-0.356	-0.0004	-2.5 to 2.5	Pass
		0	12	-0.599	-0.0007	-2.5 to 2.5	Pass
		10	12	-0.829	-0.0010	-2.5 to 2.5	Pass
		30	12	-0.626	-0.0007	-2.5 to 2.5	Pass
		40	12	-0.566	-0.0007	-2.5 to 2.5	Pass
		50	12	-0.439	-0.0005	-2.5 to 2.5	Pass
	846.6	20	10.8	0.352	0.0004	-2.5 to 2.5	Pass
			12	-0.028	0.0000	-2.5 to 2.5	Pass
			13.2	0.510	0.0006	-2.5 to 2.5	Pass
		-30	12	0.335	0.0004	-2.5 to 2.5	Pass
		-20	12	0.373	0.0004	-2.5 to 2.5	Pass
		-10	12	0.275	0.0003	-2.5 to 2.5	Pass
		0	12	0.489	0.0006	-2.5 to 2.5	Pass
		10	12	0.110	0.0001	-2.5 to 2.5	Pass
		30	12	0.172	0.0002	-2.5 to 2.5	Pass
		40	12	0.393	0.0005	-2.5 to 2.5	Pass
		50	12	0.425	0.0005	-2.5 to 2.5	Pass

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3. 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	39.28	-46.65	24.60	-78.03	-13.00	65.03	Horizontal
2	2479.2	35.41	-45.02	27.36	-77.51	-13.00	64.51	Horizontal
3	3305.6	34.29	-43.57	29.56	-74.97	-13.00	61.97	Horizontal
4	4132	32.95	-42.37	31.51	-73.17	-13.00	60.17	Horizontal
5	4958.4	33.46	-41.35	33.11	-70.04	-13.00	57.04	Horizontal
6	5784.8	33.49	-40.24	34.07	-67.94	-13.00	54.94	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8	38.78	-46.65	24.60	-78.53	-13.00	65.53	Vertical
2	2479.2	34.73	-45.02	27.36	-78.19	-13.00	65.19	Vertical
3	3305.6	34.32	-43.57	29.56	-74.94	-13.00	61.94	Vertical
4	4132	33.24	-42.37	31.51	-72.88	-13.00	59.88	Vertical
5	4958.4	33.27	-41.35	33.11	-70.23	-13.00	57.23	Vertical
6	5784.8	33.53	-40.24	34.07	-67.90	-13.00	54.90	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	38.93	-46.60	24.60	-78.33	-13.00	65.33	Horizontal
2	2509.2	34.49	-44.95	27.44	-78.28	-13.00	65.28	Horizontal
3	3345.6	33.35	-43.54	29.57	-75.88	-13.00	62.88	Horizontal
4	4182	32.57	-42.36	31.59	-73.46	-13.00	60.46	Horizontal
5	5018.4	33.27	-41.26	33.20	-70.06	-13.00	57.06	Horizontal
6	5854.8	33.09	-40.13	34.31	-67.99	-13.00	54.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	38.91	-46.60	24.60	-78.35	-13.00	65.35	Vertical
2	2509.2	35.19	-44.95	27.44	-77.58	-13.00	64.58	Vertical
3	3345.6	34.48	-43.54	29.57	-74.75	-13.00	61.75	Vertical
4	4182	32.55	-42.36	31.59	-73.48	-13.00	60.48	Vertical
5	5018.4	34.12	-41.26	33.20	-69.21	-13.00	56.21	Vertical
6	5854.8	33.40	-40.13	34.31	-67.68	-13.00	54.68	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	37.98	-46.55	24.60	-79.23	-13.00	66.23	Horizontal
2	2539.8	35.11	-44.95	27.57	-77.54	-13.00	64.54	Horizontal
3	3386.4	33.12	-43.51	29.58	-76.07	-13.00	63.07	Horizontal
4	4233	31.94	-42.32	31.67	-73.97	-13.00	60.97	Horizontal
5	5079.6	33.71	-41.28	33.18	-69.64	-13.00	56.64	Horizontal
6	5926.2	33.35	-40.10	34.55	-67.46	-13.00	54.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2	38.86	-46.55	24.60	-78.35	-13.00	65.35	Vertical
2	2539.8	35.66	-44.95	27.57	-76.99	-13.00	63.99	Vertical
3	3386.4	32.95	-43.51	29.58	-76.24	-13.00	63.24	Vertical
4	4233	32.02	-42.32	31.67	-73.89	-13.00	60.89	Vertical
5	5079.6	33.45	-41.28	33.18	-69.90	-13.00	56.90	Vertical
6	5926.2	33.52	-40.10	34.55	-67.29	-13.00	54.29	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.

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4. 99% & 26dB Bandwidth

4.1 Band V_OBW

4.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.139	/	Pass
			836.6	4.128	/	Pass
			846.6	4.125	/	Pass

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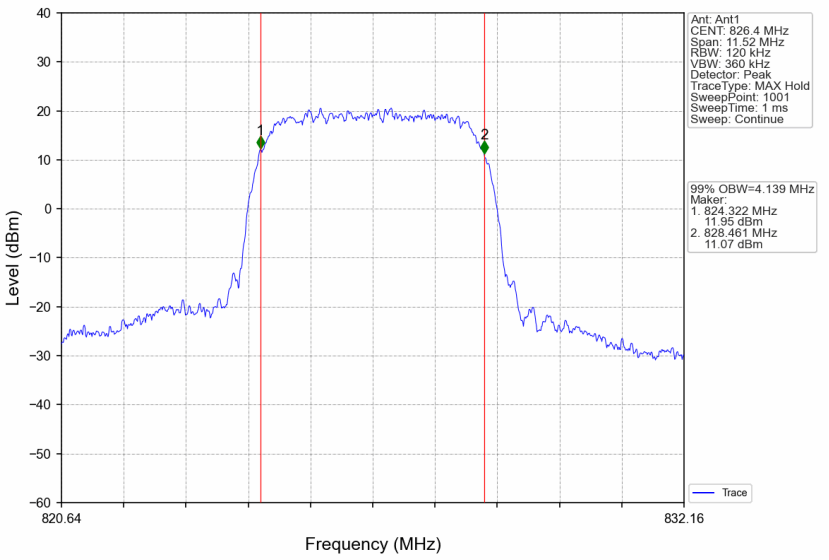
4.1.2 Test Graph

Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



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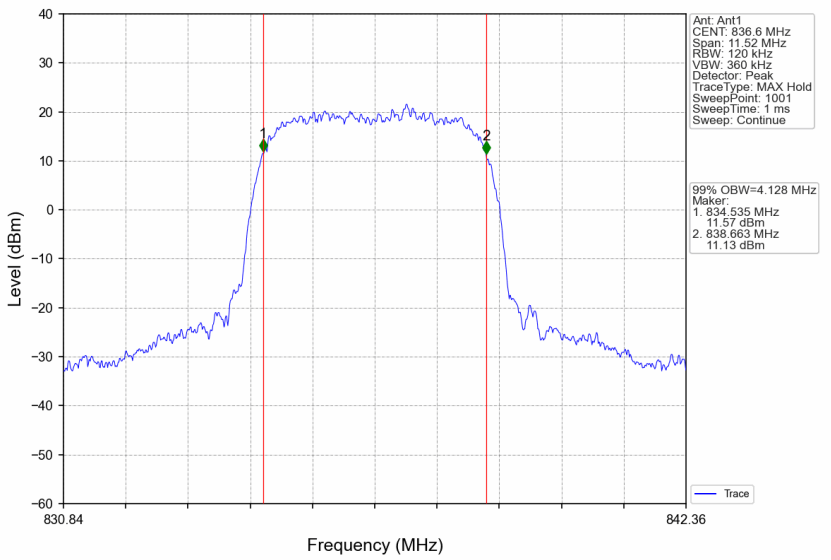
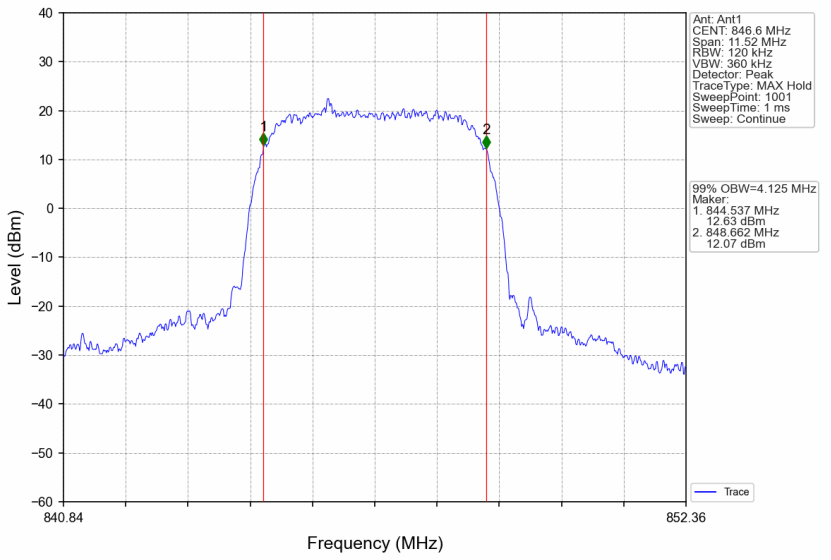
Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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4.2 Band V_XDB

4.2.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.732	/	Pass
			836.6	4.720	/	Pass
			846.6	4.716	/	Pass

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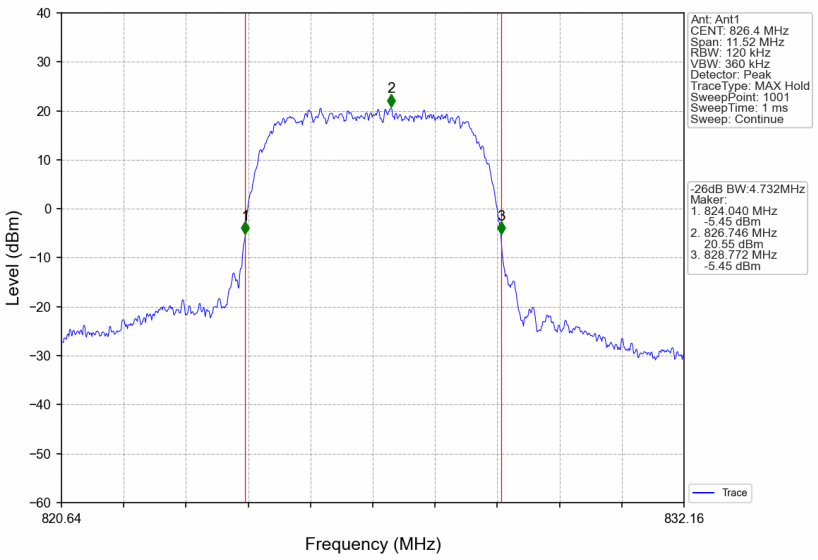
4.2.2 Test Graph

Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



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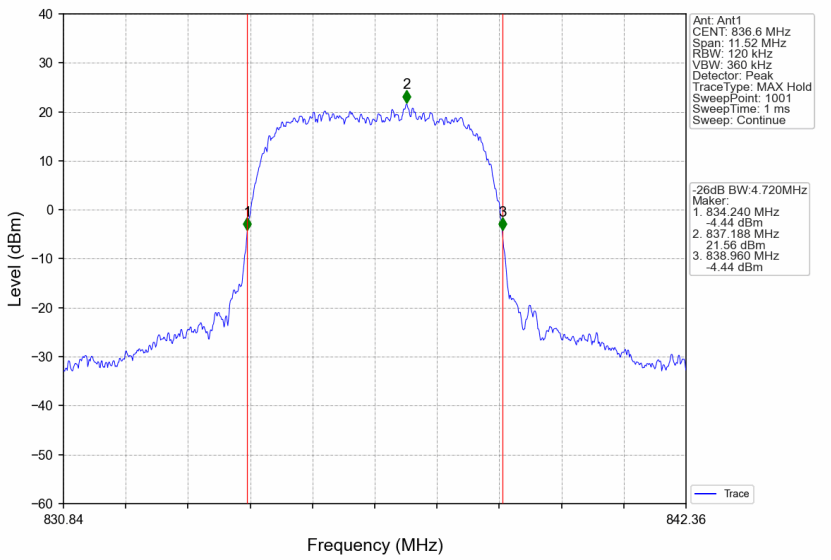
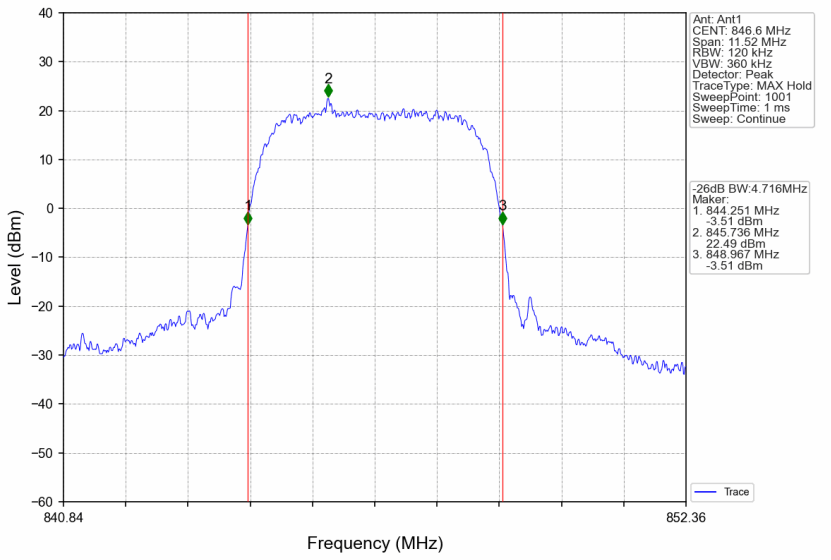
Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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5. Peak-Average Ratio

5.1 Band V

5.1.1 Test Result

Band V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.04	<=13	Pass
			836.6	2.97	<=13	Pass
			846.6	2.93	<=13	Pass

检验检测专用章 Inspection & Testing Services

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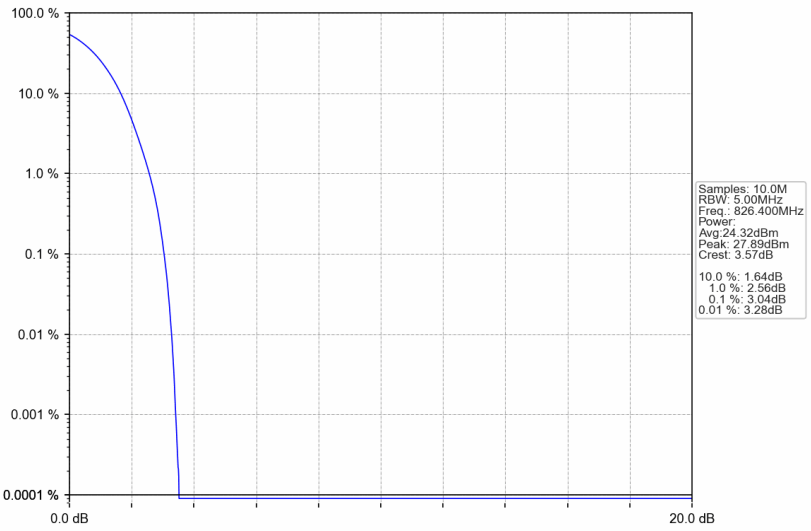
5.1.2 Test Graph

Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



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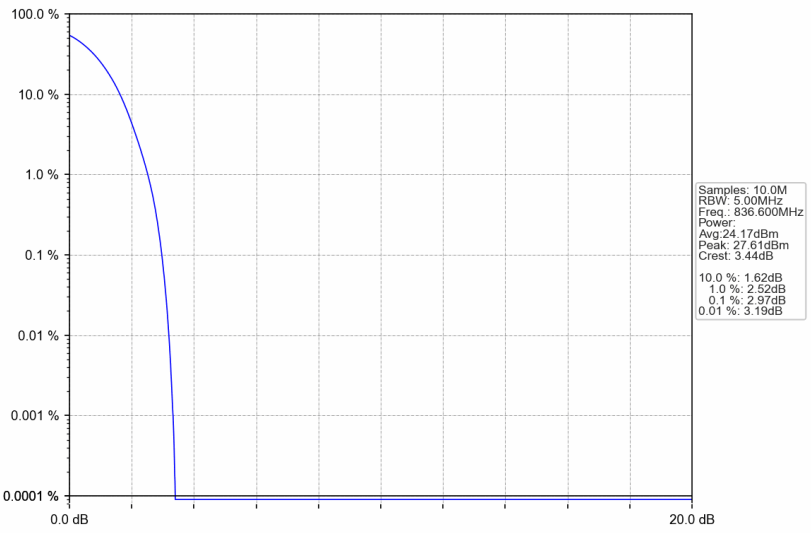
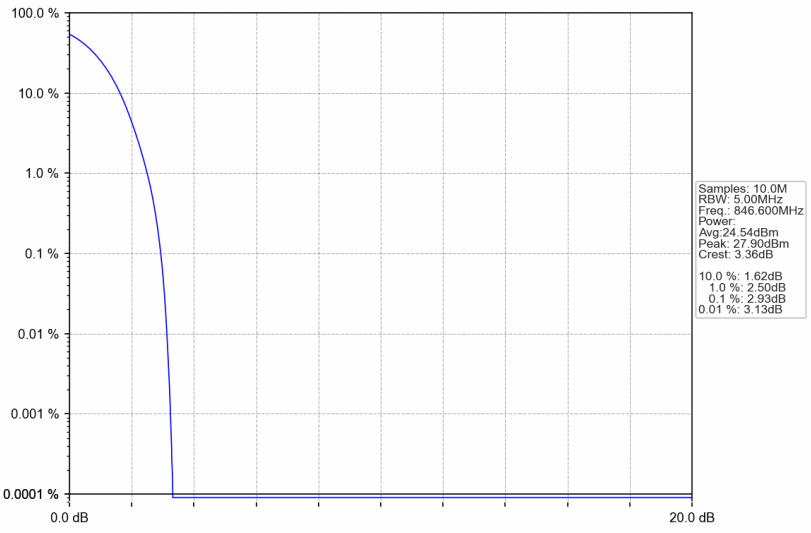
Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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6. Spurious Emission & Band Edges

6.1 Band V

6.1.1 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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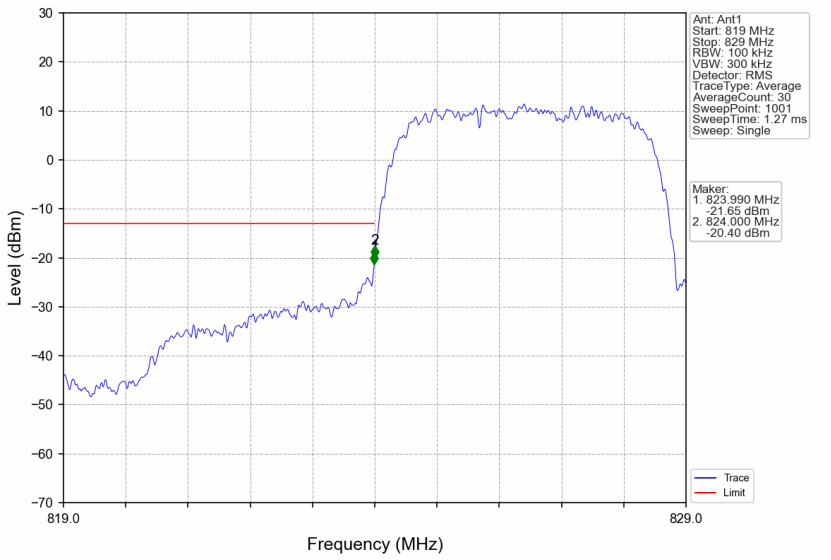
6.1.2 Test Graph

Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



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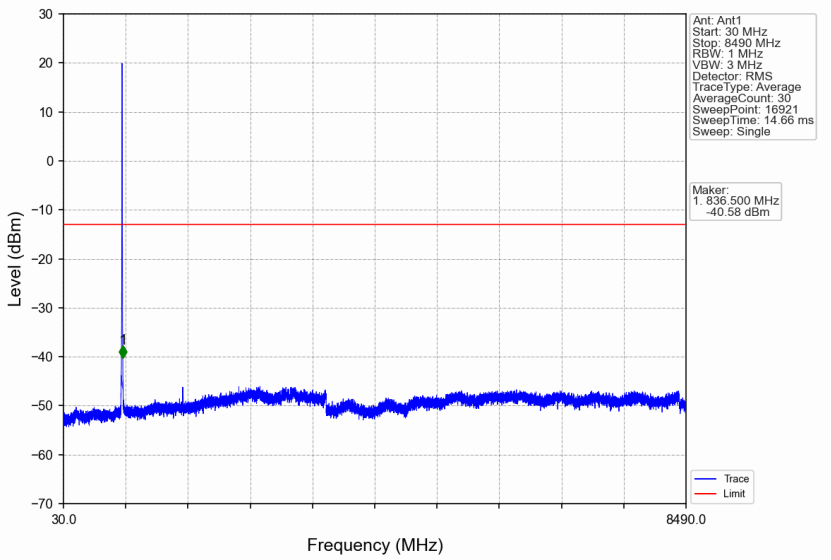
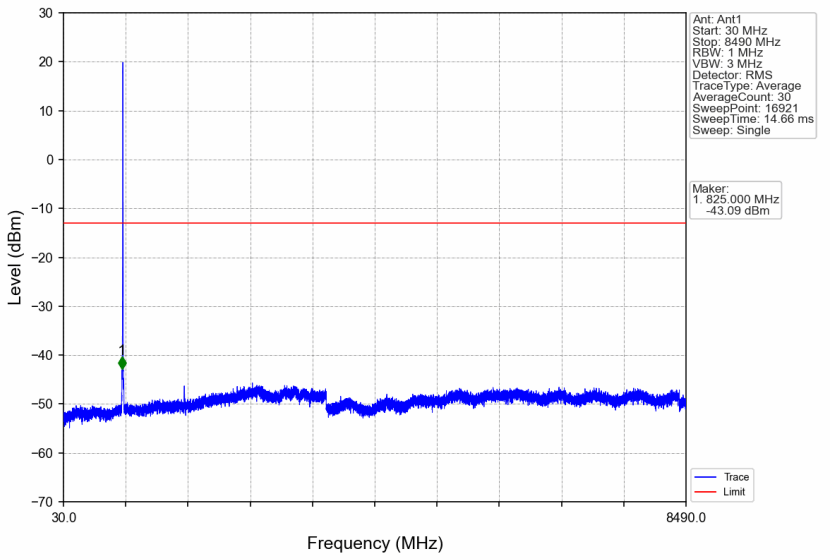
Band V_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band V_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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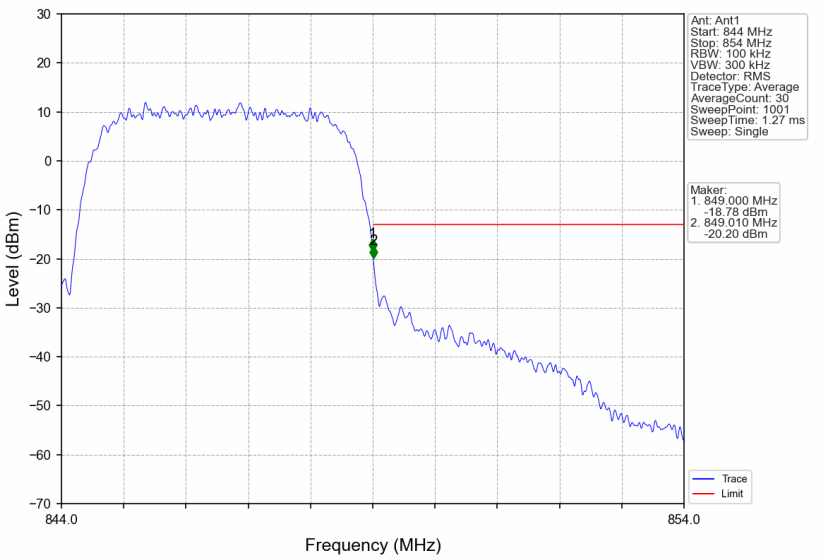
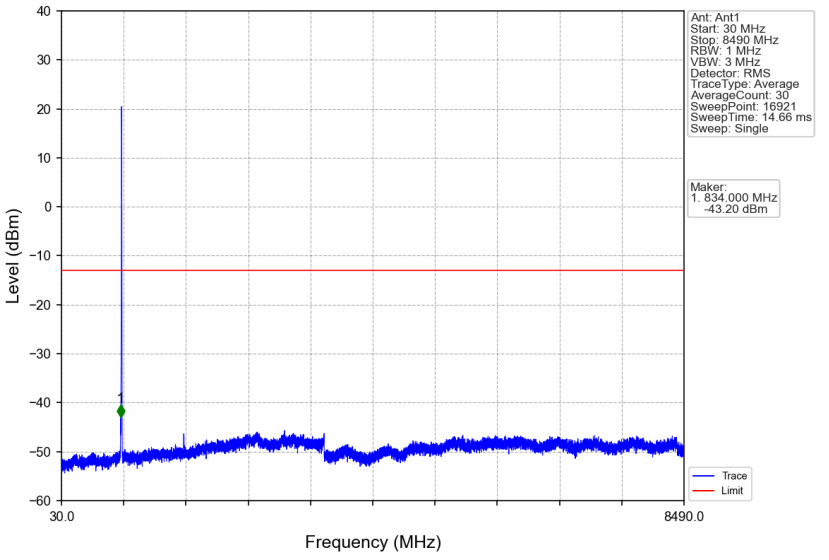
Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



Band V_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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