Appendix B.5

WCDMA Band V

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1. Effective (Isotropic) Radiated Power Output Data

1.1 Band5_ERP ANT1

1.1.1 Test Result

Band: 5								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	23.53	-5.00	16.38	<=38.45	Pass
			836.6	23.48	-5.00	16.33	<=38.45	Pass
			846.6	23.45	-5.00	16.3	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

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2. Frequency Stability

2.1 Band5

2.1.1 Test Result

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.5	2.718	0.0033	-2.5 to 2.5	Pass
			3.91	2.518	0.0030	-2.5 to 2.5	Pass
			4.35	2.754	0.0033	-2.5 to 2.5	Pass
		-30	3.91	2.575	0.0031	-2.5 to 2.5	Pass
		-20	3.91	2.389	0.0029	-2.5 to 2.5	Pass
		-10	3.91	2.210	0.0027	-2.5 to 2.5	Pass
		0	3.91	2.239	0.0027	-2.5 to 2.5	Pass
		10	3.91	2.732	0.0033	-2.5 to 2.5	Pass
		30	3.91	2.661	0.0032	-2.5 to 2.5	Pass
		40	3.91	2.511	0.0030	-2.5 to 2.5	Pass
		50	3.91	2.511	0.0030	-2.5 to 2.5	Pass
	836.6	20	3.5	0.029	0.0000	-2.5 to 2.5	Pass
			3.91	-0.279	-0.0003	-2.5 to 2.5	Pass
			4.35	-0.265	-0.0003	-2.5 to 2.5	Pass
		-30	3.91	-0.522	-0.0006	-2.5 to 2.5	Pass
		-20	3.91	-0.122	-0.0001	-2.5 to 2.5	Pass
		-10	3.91	-0.014	0.0000	-2.5 to 2.5	Pass
		0	3.91	-0.229	-0.0003	-2.5 to 2.5	Pass
		10	3.91	-0.587	-0.0007	-2.5 to 2.5	Pass
		30	3.91	0.100	0.0001	-2.5 to 2.5	Pass
		40	3.91	-0.515	-0.0006	-2.5 to 2.5	Pass
		50	3.91	-0.093	-0.0001	-2.5 to 2.5	Pass
	846.6	20	3.5	-3.026	-0.0036	-2.5 to 2.5	Pass
			3.91	-2.503	-0.0030	-2.5 to 2.5	Pass
			4.35	-2.482	-0.0029	-2.5 to 2.5	Pass
		-30	3.91	-3.147	-0.0037	-2.5 to 2.5	Pass
		-20	3.91	-2.489	-0.0029	-2.5 to 2.5	Pass
		-10	3.91	-2.275	-0.0027	-2.5 to 2.5	Pass
		0	3.91	-3.276	-0.0039	-2.5 to 2.5	Pass
		10	3.91	-2.775	-0.0033	-2.5 to 2.5	Pass
		30	3.91	-2.990	-0.0035	-2.5 to 2.5	Pass
		40	3.91	-3.147	-0.0037	-2.5 to 2.5	Pass
		50	3.91	-2.933	-0.0035	-2.5 to 2.5	Pass

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3. Field Strength of Spurious Radiation

Test Band = WCDMA BandV_ TM1
Test Channel = Low Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1655.1111	60.99	-49.81	25.32	-58.76	-13.00	45.76	Horizontal
2	2473.3333	51.88	-49.05	27.27	-65.17	-13.00	52.17	Horizontal
3	3305.6	44.29	-48.63	28.62	-70.98	-13.00	57.98	Horizontal
4	4132	43.48	-48.29	29.64	-70.43	-13.00	57.43	Horizontal
5	4958.4	42.63	-48.05	31.40	-69.28	-13.00	56.28	Horizontal
6	5784.8	43.19	-47.69	32.76	-67.00	-13.00	54.00	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2222	57.78	-49.82	25.32	-61.98	-13.00	48.98	Vertical
2	2476	47.64	-49.04	27.27	-69.39	-13.00	56.39	Vertical
3	3305.6	43.95	-48.63	28.62	-71.32	-13.00	58.32	Vertical
4	4132	43.51	-48.29	29.64	-70.40	-13.00	57.40	Vertical
5	4958.4	42.99	-48.05	31.40	-68.92	-13.00	55.92	Vertical
6	5784.8	43.45	-47.69	32.76	-66.74	-13.00	53.74	Vertical

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Test Band = WCDMA BandV_ TM1
Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.5556	68.03	-49.78	25.39	-51.62	-13.00	38.62	Horizontal
2	2509.2	44.39	-48.93	27.32	-72.47	-13.00	59.47	Horizontal
3	3345.6	44.13	-48.66	28.64	-71.15	-13.00	58.15	Horizontal
4	4182	43.07	-48.34	29.73	-70.80	-13.00	57.80	Horizontal
5	5018.4	42.51	-47.95	31.54	-69.16	-13.00	56.16	Horizontal
6	5854.8	43.10	-47.33	32.77	-66.72	-13.00	53.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1670.6667	56.67	-49.78	25.38	-62.99	-13.00	49.99	Vertical
2	2509.2	48.47	-48.93	27.32	-68.39	-13.00	55.39	Vertical
3	3345.6	43.68	-48.66	28.64	-71.60	-13.00	58.60	Vertical
4	4182	43.25	-48.34	29.73	-70.62	-13.00	57.62	Vertical
5	5018.4	42.58	-47.95	31.54	-69.09	-13.00	56.09	Vertical
6	5854.8	42.66	-47.33	32.77	-67.16	-13.00	54.16	Vertical

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Test Band = WCDMA BandV_ TM1
Test Channel = High Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1692	68.60	-49.74	25.47	-50.93	-13.00	37.93	Horizontal
2	2539.8	44.49	-49.01	27.40	-72.38	-13.00	59.38	Horizontal
3	3386.4	43.43	-48.68	28.65	-71.86	-13.00	58.86	Horizontal
4	4233	43.07	-48.25	29.82	-70.62	-13.00	57.62	Horizontal
5	5079.6	43.85	-47.93	31.69	-67.65	-13.00	54.65	Horizontal
6	5926.2	42.44	-47.17	32.79	-67.21	-13.00	54.21	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.1111	61.23	-49.74	25.46	-58.30	-13.00	45.30	Vertical
2	2539.8	44.71	-49.01	27.40	-72.16	-13.00	59.16	Vertical
3	3386.4	44.26	-48.68	28.65	-71.03	-13.00	58.03	Vertical
4	4233	43.37	-48.25	29.82	-70.32	-13.00	57.32	Vertical
5	5079.6	43.12	-47.93	31.69	-68.38	-13.00	55.38	Vertical
6	5926.2	43.74	-47.17	32.79	-65.91	-13.00	52.91	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 Band5_OBW

4.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.155	/	Pass
			836.6	4.156	/	Pass
			846.6	4.167	/	Pass

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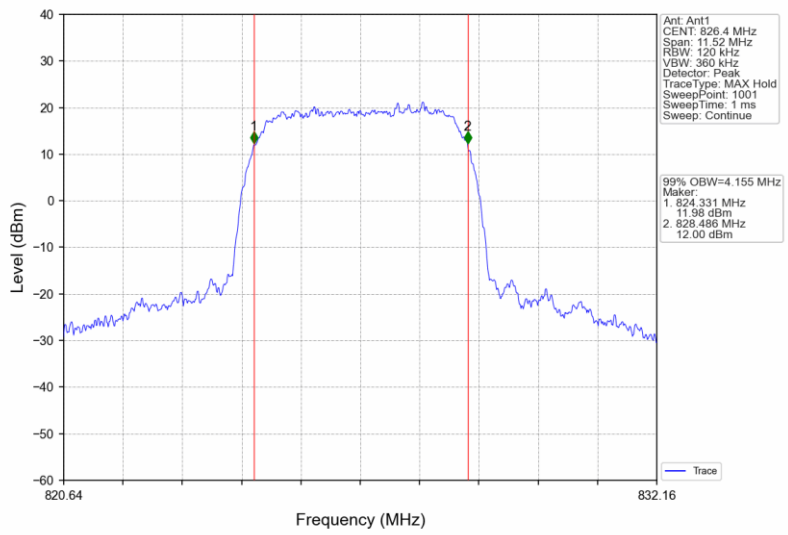
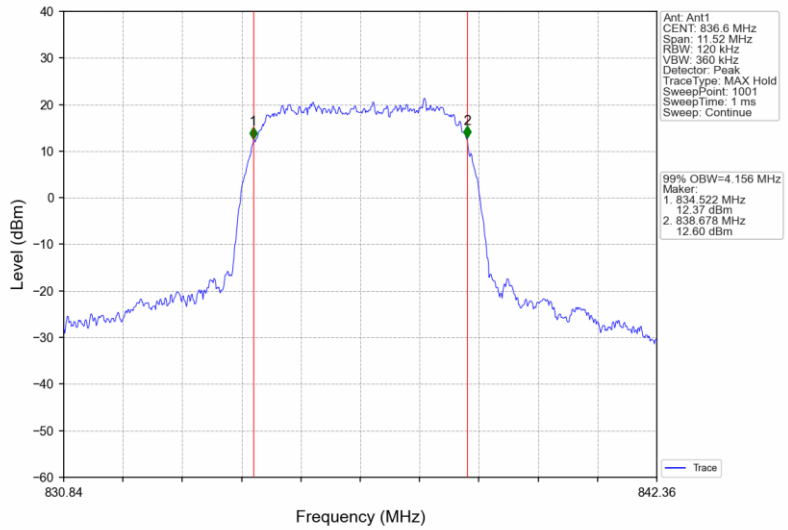
4.1.2 Test Graph

Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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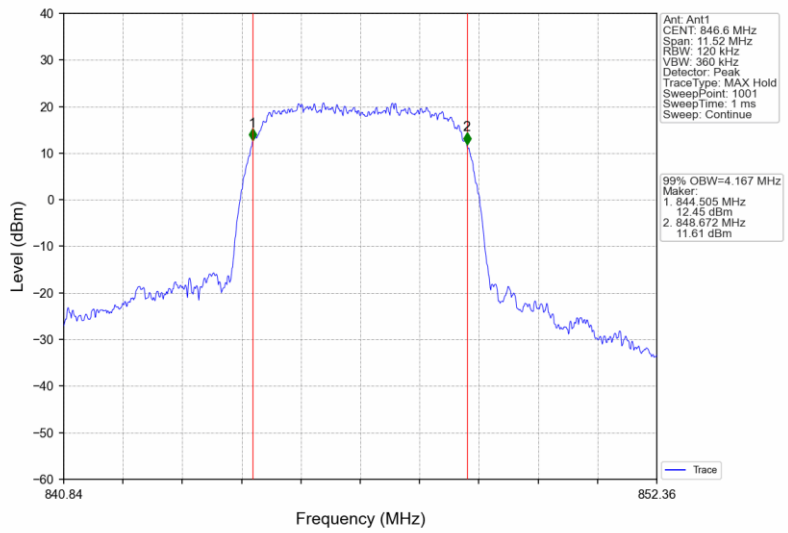
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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4.2 Band5_XDB

4.2.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.748	/	Pass
			836.6	4.770	/	Pass
			846.6	4.778	/	Pass

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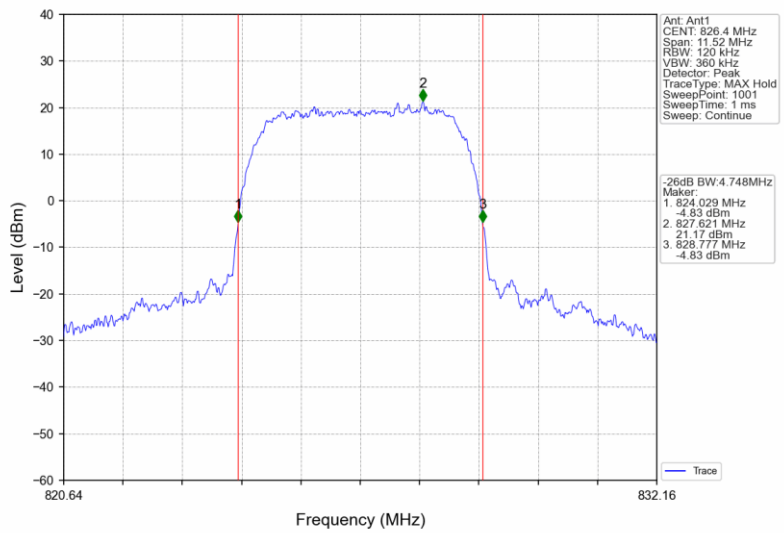
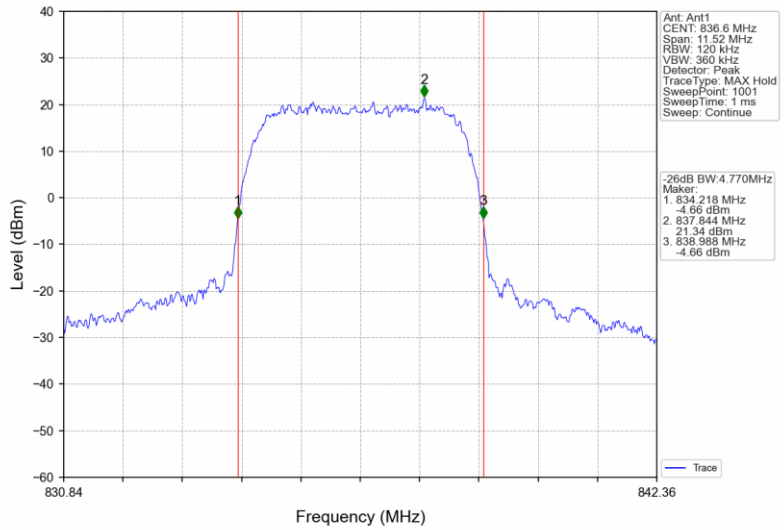
4.2.2 Test Graph

Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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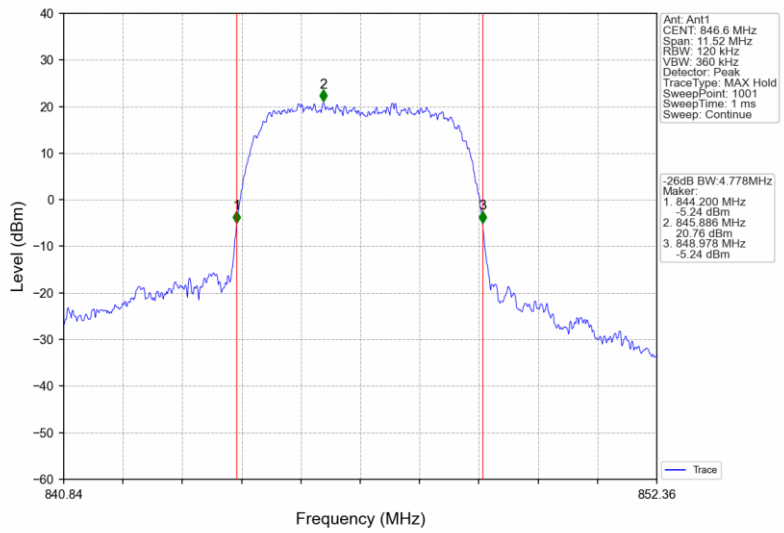
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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5. Peak-Average Ratio

5.1 Band5

5.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.69	<=13	Pass
			836.6	2.71	<=13	Pass
			846.6	2.69	<=13	Pass

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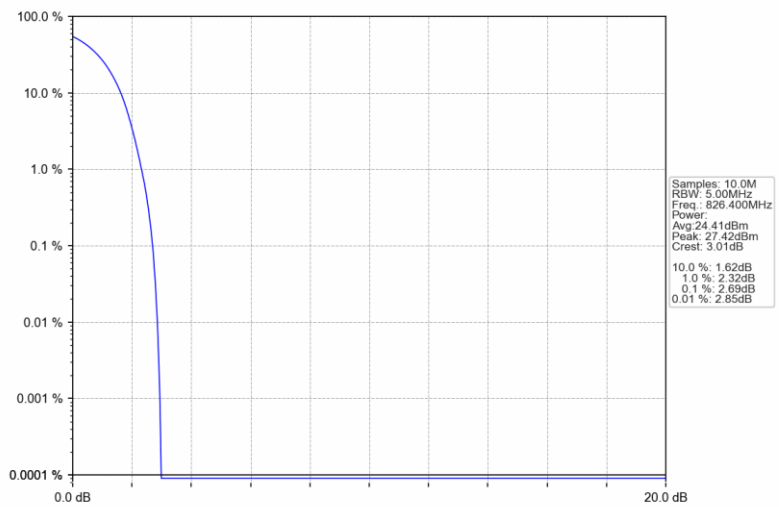
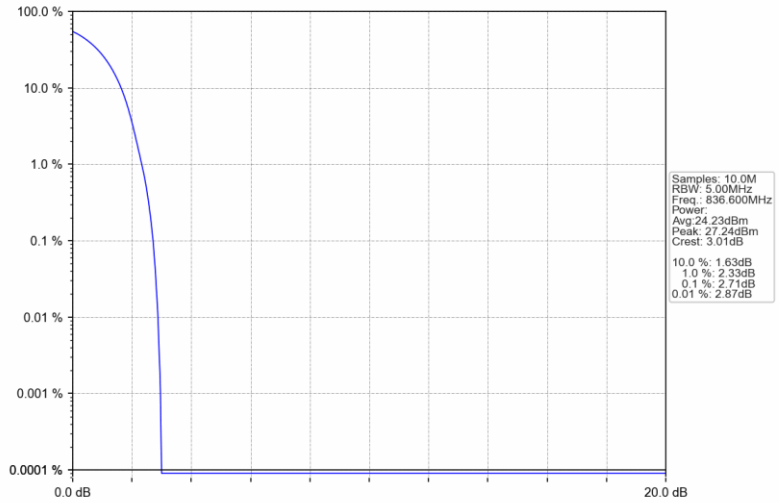
5.1.2 Test Graph

Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



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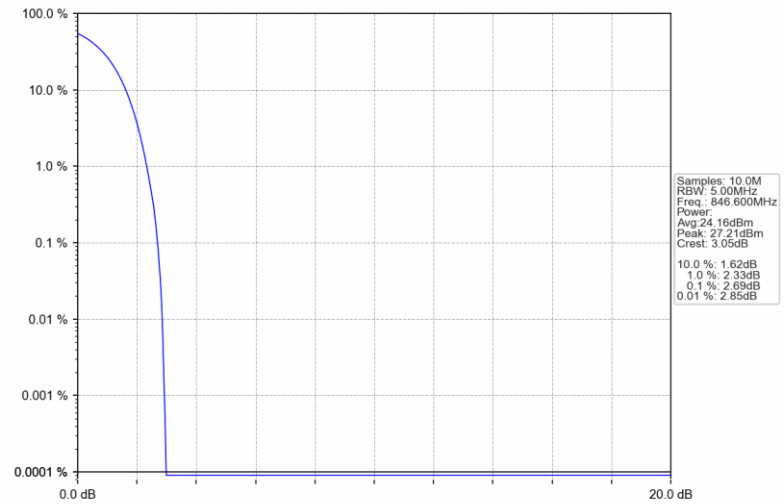
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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6. Spurious Emission & Band Edges

6.1 Band5

6.1.1 Test Result

Band: 5						
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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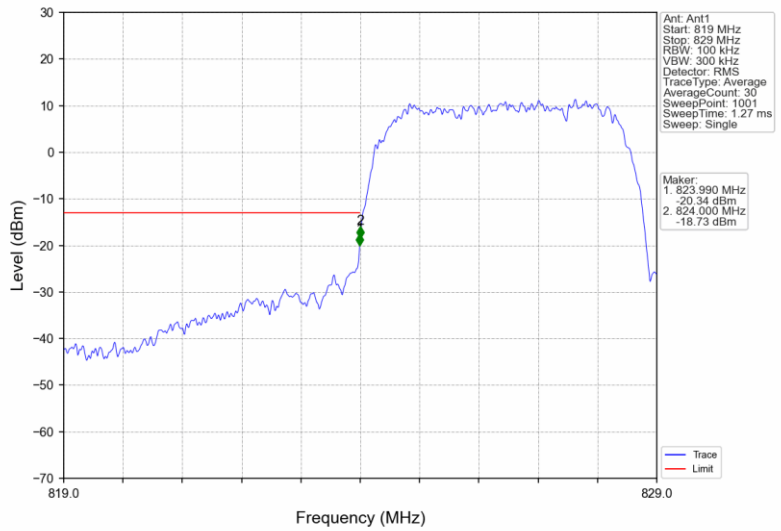
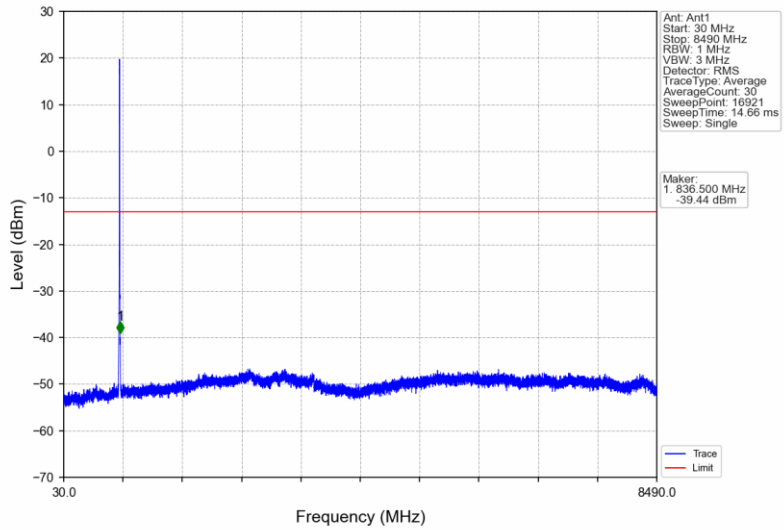
6.1.2 Test Graph

Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



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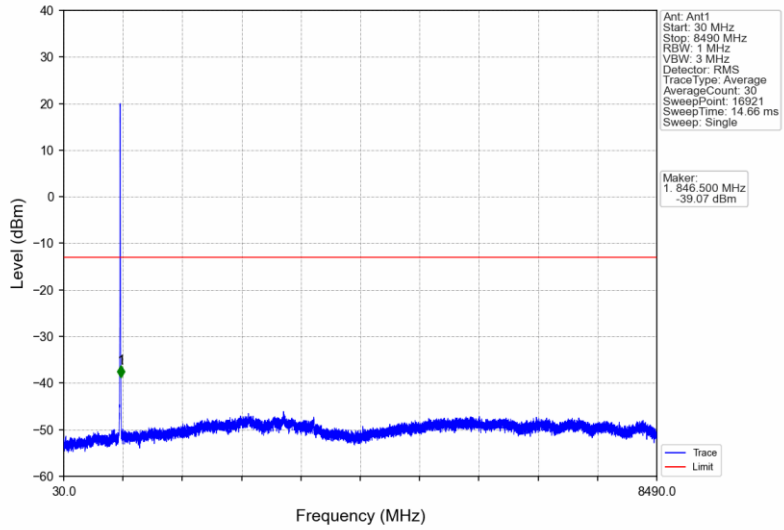
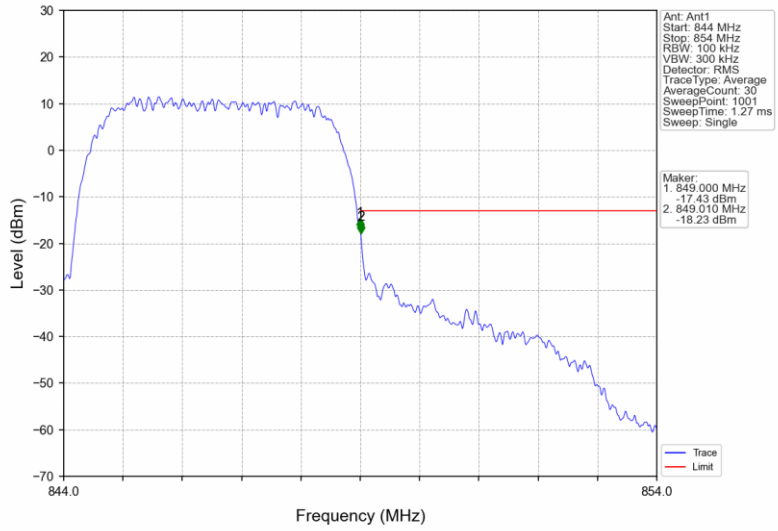


Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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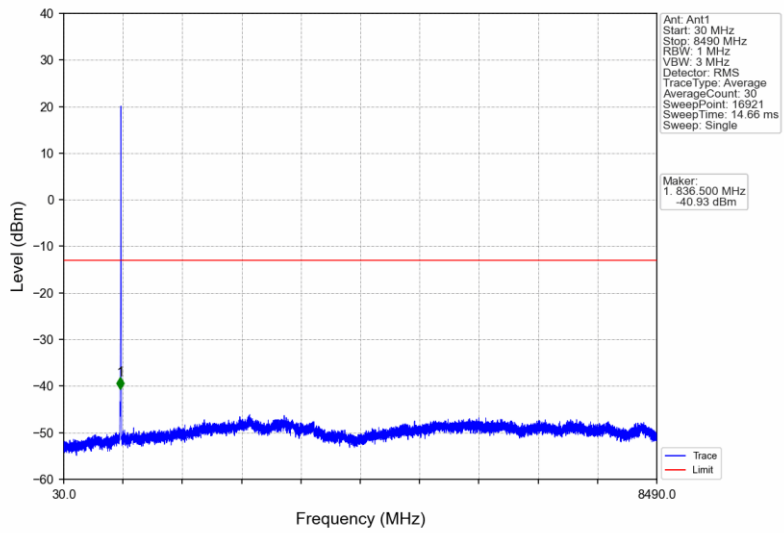

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