

Appendix I for KSCR220400050307

1. Effective (Isotropic) Radiated Power Output Data

1.1 Band5_ERP

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	25.03	1.30	24.18	<=38.45	Pass
			836.6	25.17	1.30	24.32	<=38.45	Pass
			846.6	24.93	1.30	24.08	<=38.45	Pass
	HSDPA	Subtest 1	826.4	23.23	1.30	22.38	<=38.45	Pass
		Subtest 2	826.4	23.20	1.30	22.35	<=38.45	Pass
		Subtest 3	826.4	23.22	1.30	22.37	<=38.45	Pass
		Subtest 4	826.4	23.19	1.30	22.34	<=38.45	Pass
		Subtest 1	836.6	23.33	1.30	22.48	<=38.45	Pass
		Subtest 2	836.6	23.43	1.30	22.58	<=38.45	Pass
		Subtest 3	836.6	23.33	1.30	22.48	<=38.45	Pass
		Subtest 4	836.6	23.37	1.30	22.52	<=38.45	Pass
		Subtest 1	846.6	23.38	1.30	22.53	<=38.45	Pass
		Subtest 2	846.6	23.30	1.30	22.45	<=38.45	Pass
		Subtest 3	846.6	23.19	1.30	22.34	<=38.45	Pass
		Subtest 4	846.6	23.23	1.30	22.38	<=38.45	Pass
	HSUPA	Subtest 1	826.4	21.80	1.30	20.95	<=38.45	Pass
		Subtest 2	826.4	21.42	1.30	20.57	<=38.45	Pass
		Subtest 3	826.4	21.44	1.30	20.59	<=38.45	Pass
		Subtest 4	826.4	21.86	1.30	21.01	<=38.45	Pass
		Subtest 5	826.4	21.39	1.30	20.54	<=38.45	Pass
		Subtest 1	836.6	21.94	1.30	21.09	<=38.45	Pass
		Subtest 2	836.6	21.49	1.30	20.64	<=38.45	Pass
		Subtest 3	836.6	21.60	1.30	20.75	<=38.45	Pass
		Subtest 4	836.6	22.02	1.30	21.17	<=38.45	Pass
		Subtest 5	836.6	21.55	1.30	20.70	<=38.45	Pass
		Subtest 1	846.6	21.83	1.30	20.98	<=38.45	Pass
		Subtest 2	846.6	21.43	1.30	20.58	<=38.45	Pass
		Subtest 3	846.6	21.44	1.30	20.59	<=38.45	Pass
		Subtest 4	846.6	21.87	1.30	21.02	<=38.45	Pass
		Subtest 5	846.6	21.40	1.30	20.55	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Band5



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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	6.12	-0.175	-0.0002	-2.5 to 2.5	Pass
			7.2	-0.266	-0.0003	-2.5 to 2.5	Pass
			8.28	-0.135	-0.0002	-2.5 to 2.5	Pass
		-30	7.2	0.289	0.0003	-2.5 to 2.5	Pass
		-20	7.2	-0.054	-0.0001	-2.5 to 2.5	Pass
		-10	7.2	0.195	0.0002	-2.5 to 2.5	Pass
		0	7.2	0.158	0.0002	-2.5 to 2.5	Pass
		10	7.2	0.163	0.0002	-2.5 to 2.5	Pass
		30	7.2	0.351	0.0004	-2.5 to 2.5	Pass
		40	7.2	0.125	0.0002	-2.5 to 2.5	Pass
		50	7.2	0.455	0.0006	-2.5 to 2.5	Pass
	836.6	20	6.12	0.560	0.0007	-2.5 to 2.5	Pass
			7.2	0.131	0.0002	-2.5 to 2.5	Pass
			8.28	0.407	0.0005	-2.5 to 2.5	Pass
		-30	7.2	0.185	0.0002	-2.5 to 2.5	Pass
		-20	7.2	0.293	0.0004	-2.5 to 2.5	Pass
		-10	7.2	0.063	0.0001	-2.5 to 2.5	Pass
		0	7.2	0.352	0.0004	-2.5 to 2.5	Pass
		10	7.2	0.138	0.0002	-2.5 to 2.5	Pass
		30	7.2	0.164	0.0002	-2.5 to 2.5	Pass
		40	7.2	-0.017	0.0000	-2.5 to 2.5	Pass
		50	7.2	0.252	0.0003	-2.5 to 2.5	Pass
	846.6	20	6.12	-1.339	-0.0016	-2.5 to 2.5	Pass
			7.2	0.462	0.0005	-2.5 to 2.5	Pass
			8.28	0.299	0.0004	-2.5 to 2.5	Pass
		-30	7.2	0.544	0.0006	-2.5 to 2.5	Pass
		-20	7.2	0.374	0.0004	-2.5 to 2.5	Pass
		-10	7.2	0.501	0.0006	-2.5 to 2.5	Pass
		0	7.2	0.014	0.0000	-2.5 to 2.5	Pass
		10	7.2	0.220	0.0003	-2.5 to 2.5	Pass
		30	7.2	0.354	0.0004	-2.5 to 2.5	Pass
		40	7.2	0.040	0.0000	-2.5 to 2.5	Pass
HSDPA	826.4	20	6.12	0.710	0.0009	-2.5 to 2.5	Pass
			7.2	0.907	0.0011	-2.5 to 2.5	Pass
			8.28	0.590	0.0007	-2.5 to 2.5	Pass
		-30	7.2	0.963	0.0012	-2.5 to 2.5	Pass
		-20	7.2	1.396	0.0017	-2.5 to 2.5	Pass
		-10	7.2	1.222	0.0015	-2.5 to 2.5	Pass
		0	7.2	1.137	0.0014	-2.5 to 2.5	Pass
		10	7.2	1.175	0.0014	-2.5 to 2.5	Pass
		30	7.2	1.053	0.0013	-2.5 to 2.5	Pass
		40	7.2	0.469	0.0006	-2.5 to 2.5	Pass
		50	7.2	0.816	0.0010	-2.5 to 2.5	Pass
	836.6	20	6.12	1.973	0.0024	-2.5 to 2.5	Pass



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				7.2	2.101	0.0025	-2.5 to 2.5	Pass
				8.28	2.120	0.0025	-2.5 to 2.5	Pass
			-30	7.2	2.574	0.0031	-2.5 to 2.5	Pass
			-20	7.2	2.764	0.0033	-2.5 to 2.5	Pass
			-10	7.2	2.304	0.0028	-2.5 to 2.5	Pass
			0	7.2	2.439	0.0029	-2.5 to 2.5	Pass
			10	7.2	2.376	0.0028	-2.5 to 2.5	Pass
			30	7.2	2.688	0.0032	-2.5 to 2.5	Pass
			40	7.2	2.323	0.0028	-2.5 to 2.5	Pass
			50	7.2	2.606	0.0031	-2.5 to 2.5	Pass
	846.6	20		6.12	3.252	0.0038	-2.5 to 2.5	Pass
				7.2	3.464	0.0041	-2.5 to 2.5	Pass
				8.28	2.626	0.0031	-2.5 to 2.5	Pass
		-30	7.2	2.904	0.0034	-2.5 to 2.5	Pass	
		-20	7.2	2.858	0.0034	-2.5 to 2.5	Pass	
		-10	7.2	3.083	0.0036	-2.5 to 2.5	Pass	
		0	7.2	2.855	0.0034	-2.5 to 2.5	Pass	
		10	7.2	3.574	0.0042	-2.5 to 2.5	Pass	
		30	7.2	4.783	0.0056	-2.5 to 2.5	Pass	
		40	7.2	4.545	0.0054	-2.5 to 2.5	Pass	
		50	7.2	4.937	0.0058	-2.5 to 2.5	Pass	
HSUPA	826.4	20		6.12	3.231	0.0039	-2.5 to 2.5	Pass
				7.2	3.148	0.0038	-2.5 to 2.5	Pass
				8.28	-0.737	-0.0009	-2.5 to 2.5	Pass
		-30	7.2	-0.317	-0.0004	-2.5 to 2.5	Pass	
		-20	7.2	-0.424	-0.0005	-2.5 to 2.5	Pass	
		-10	7.2	-0.555	-0.0007	-2.5 to 2.5	Pass	
		0	7.2	-0.236	-0.0003	-2.5 to 2.5	Pass	
		10	7.2	-0.226	-0.0003	-2.5 to 2.5	Pass	
		30	7.2	-0.426	-0.0005	-2.5 to 2.5	Pass	
		40	7.2	-0.436	-0.0005	-2.5 to 2.5	Pass	
		50	7.2	-0.431	-0.0005	-2.5 to 2.5	Pass	
	836.6	20		6.12	-0.839	-0.0010	-2.5 to 2.5	Pass
				7.2	-0.510	-0.0006	-2.5 to 2.5	Pass
				8.28	-0.501	-0.0006	-2.5 to 2.5	Pass
		-30	7.2	-0.483	-0.0006	-2.5 to 2.5	Pass	
		-20	7.2	-1.023	-0.0012	-2.5 to 2.5	Pass	
		-10	7.2	-0.758	-0.0009	-2.5 to 2.5	Pass	
		0	7.2	-0.767	-0.0009	-2.5 to 2.5	Pass	
		10	7.2	-0.333	-0.0004	-2.5 to 2.5	Pass	
		30	7.2	-0.281	-0.0003	-2.5 to 2.5	Pass	
		40	7.2	-0.535	-0.0006	-2.5 to 2.5	Pass	
		50	7.2	-1.393	-0.0017	-2.5 to 2.5	Pass	
	846.6	20		6.12	-0.352	-0.0004	-2.5 to 2.5	Pass
				7.2	-0.362	-0.0004	-2.5 to 2.5	Pass
				8.28	-0.146	-0.0002	-2.5 to 2.5	Pass
		-30	7.2	-0.037	0.0000	-2.5 to 2.5	Pass	
		-20	7.2	-0.265	-0.0003	-2.5 to 2.5	Pass	
		-10	7.2	-0.525	-0.0006	-2.5 to 2.5	Pass	
		0	7.2	-0.500	-0.0006	-2.5 to 2.5	Pass	
		10	7.2	-0.315	-0.0004	-2.5 to 2.5	Pass	



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		30	7.2	-0.507	-0.0006	-2.5 to 2.5	Pass
		40	7.2	-0.748	-0.0009	-2.5 to 2.5	Pass
		50	7.2	-0.785	-0.0009	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Band5

3.1.1 Test Result

Band: 5						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	836.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph		Pass



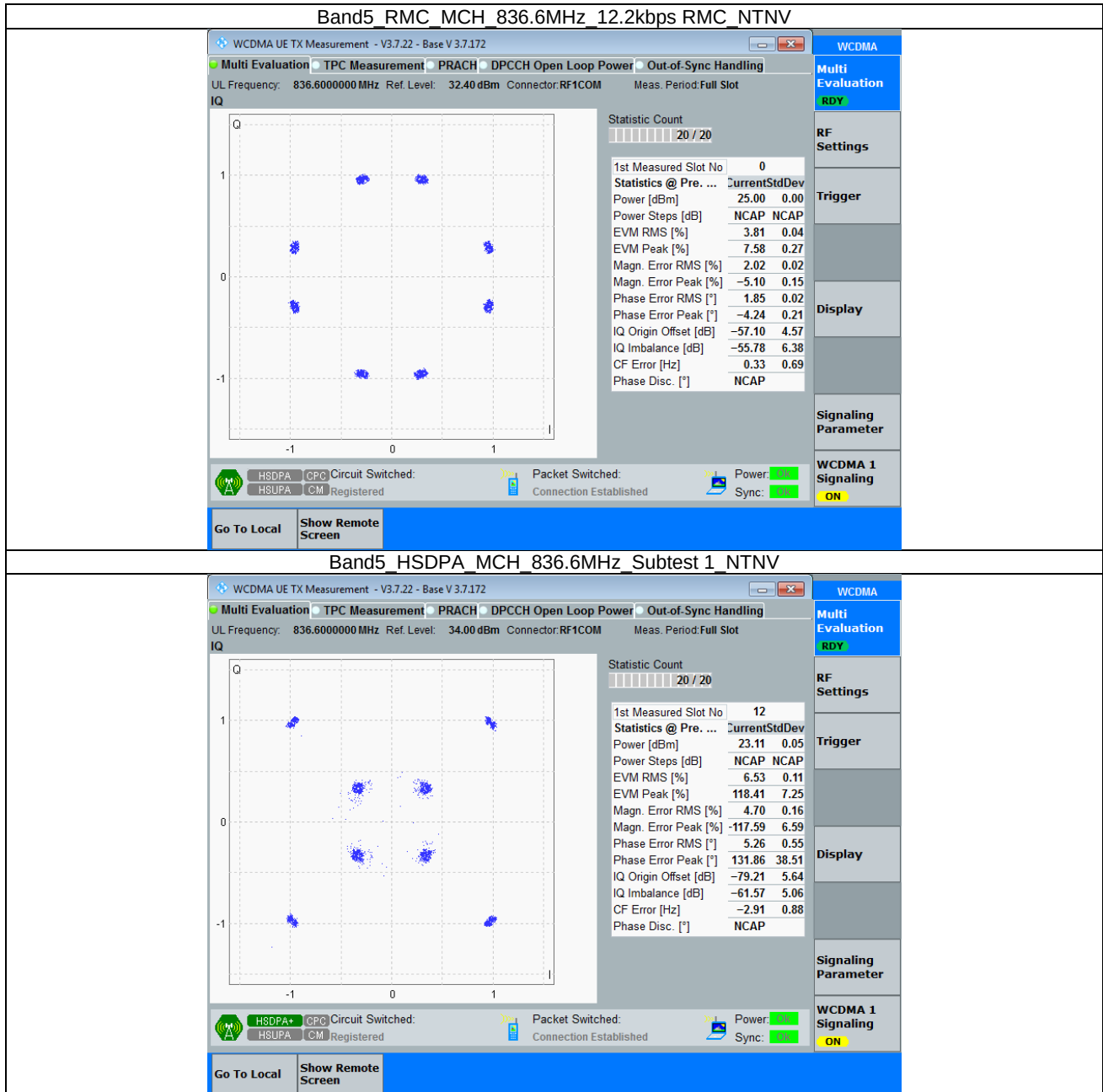
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3.1.2 Test Graph

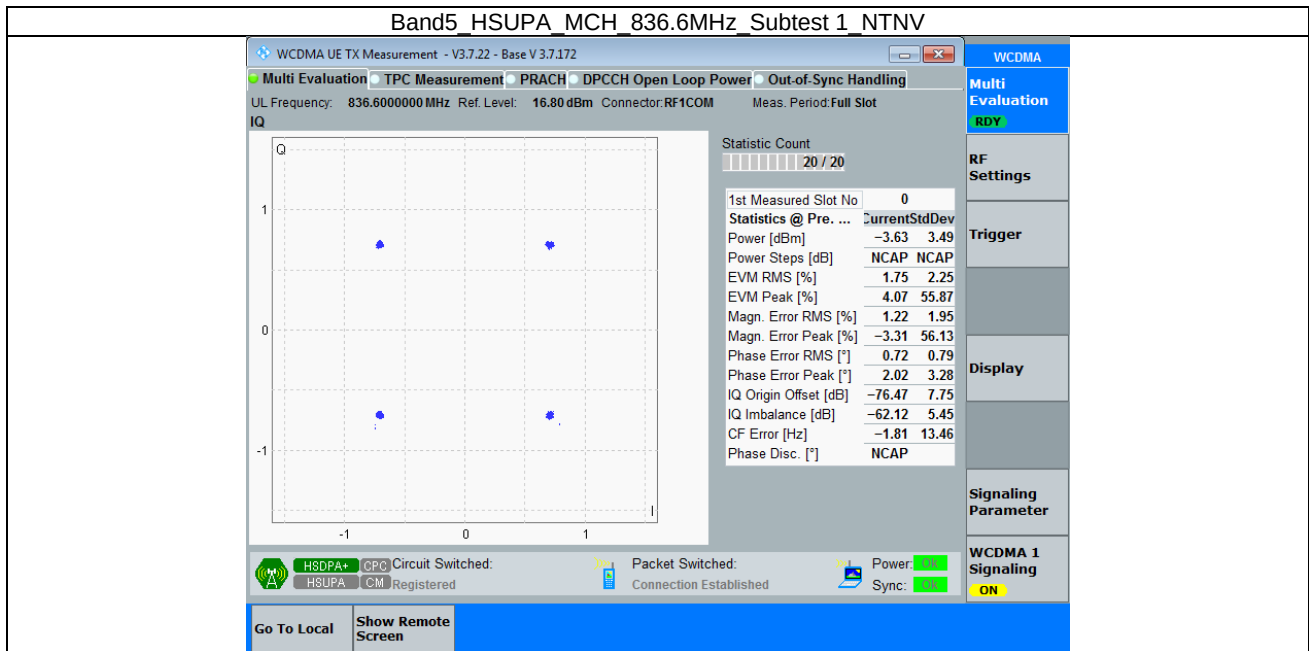


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4. 99% & 26dB Bandwidth

4.1 Band5_OBW

4.1.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.125	Pass
			836.6	4.125	Pass
			846.6	4.137	Pass
	HSDPA	Subtest 1	826.4	4.173	Pass
			836.6	4.184	Pass
			846.6	4.159	Pass
	HSUPA	Subtest 1	826.4	4.204	Pass
			836.6	4.169	Pass
			846.6	4.174	Pass



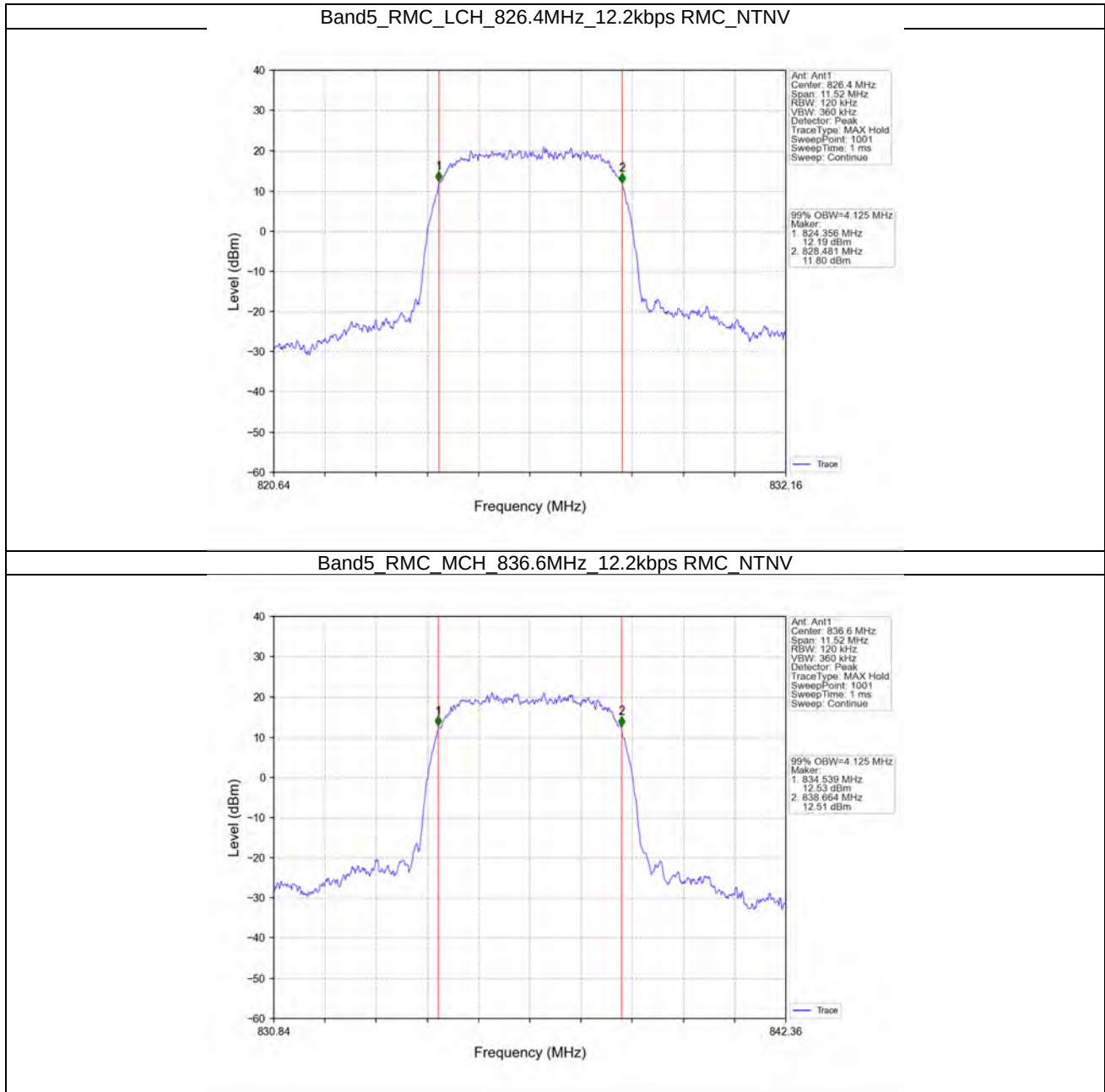
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4.1.2 Test Graph



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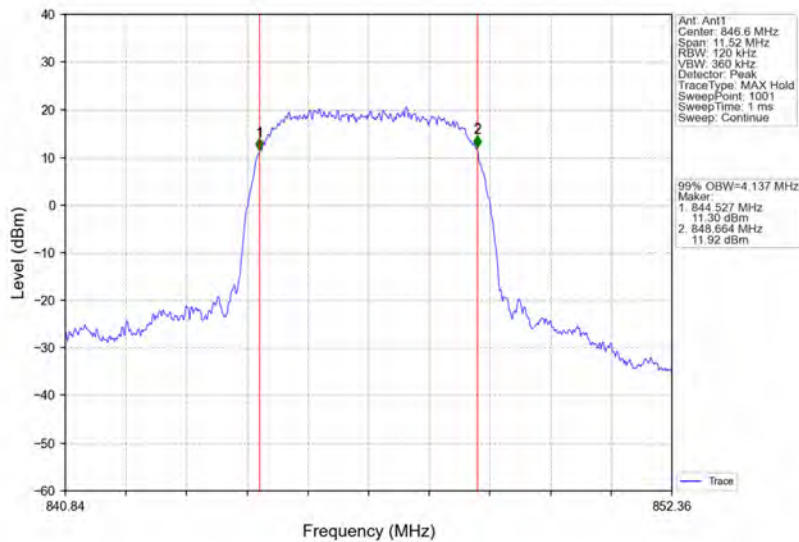
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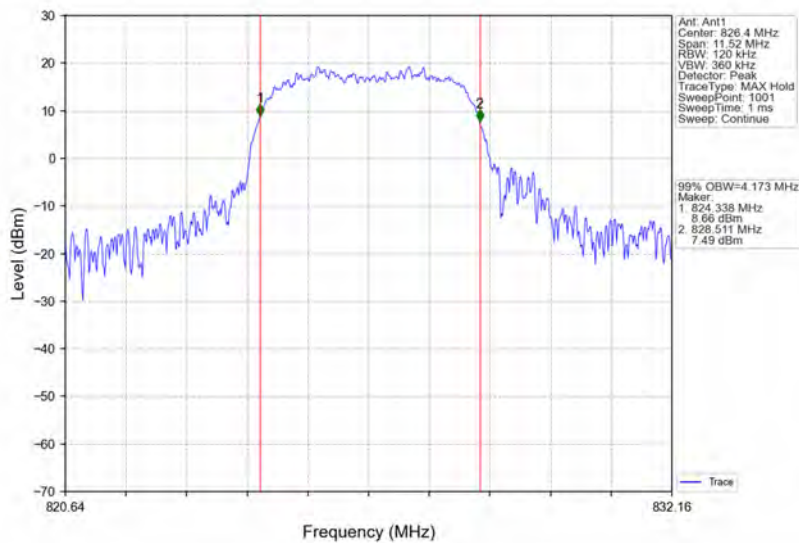
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Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



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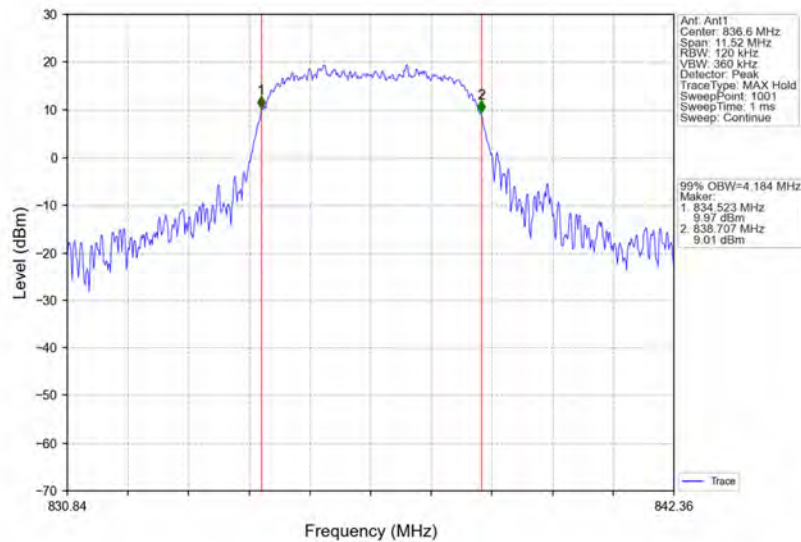
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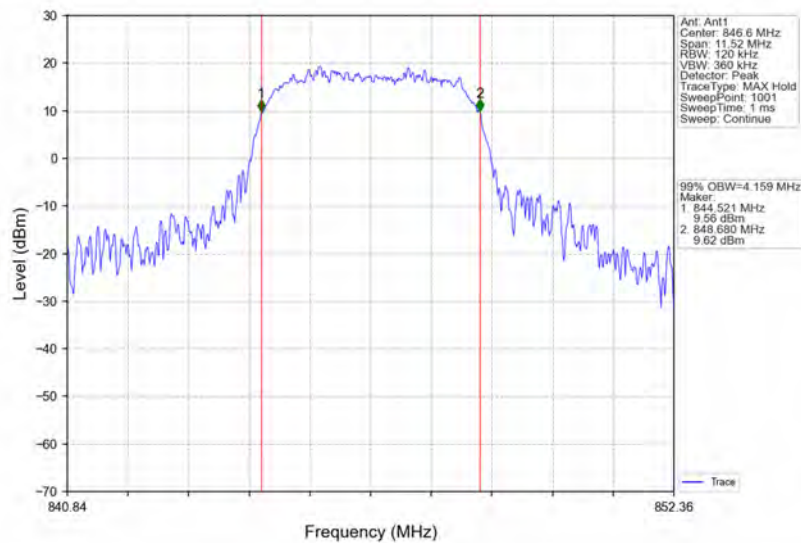
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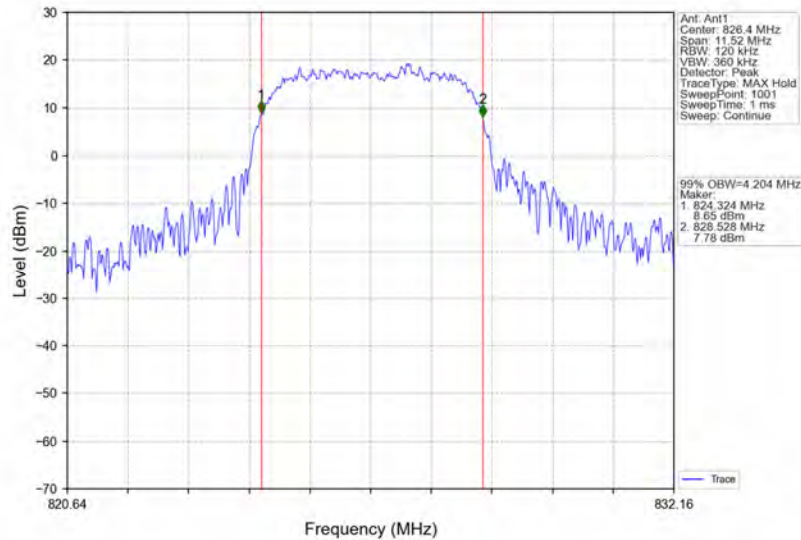
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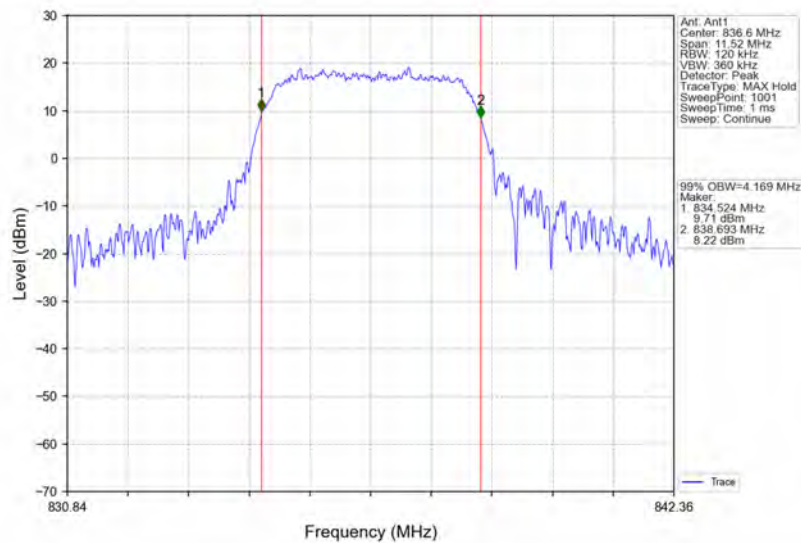
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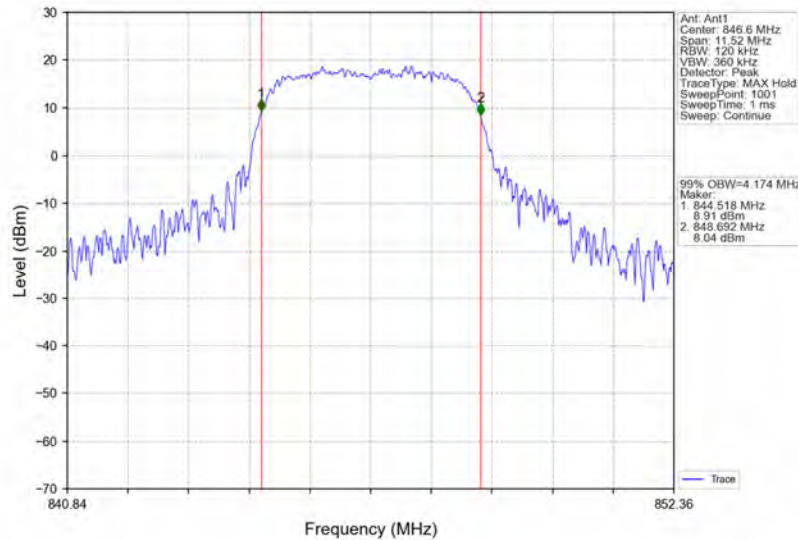
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4.2 Band5_XDB

4.2.1 Test Result

Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.762	Pass
			836.6	4.739	Pass
			846.6	4.744	Pass
	HSDPA	Subtest 1	826.4	5.847	Pass
			836.6	6.285	Pass
			846.6	5.375	Pass
	HSUPA	Subtest 1	826.4	6.076	Pass
			836.6	5.944	Pass
			846.6	5.963	Pass



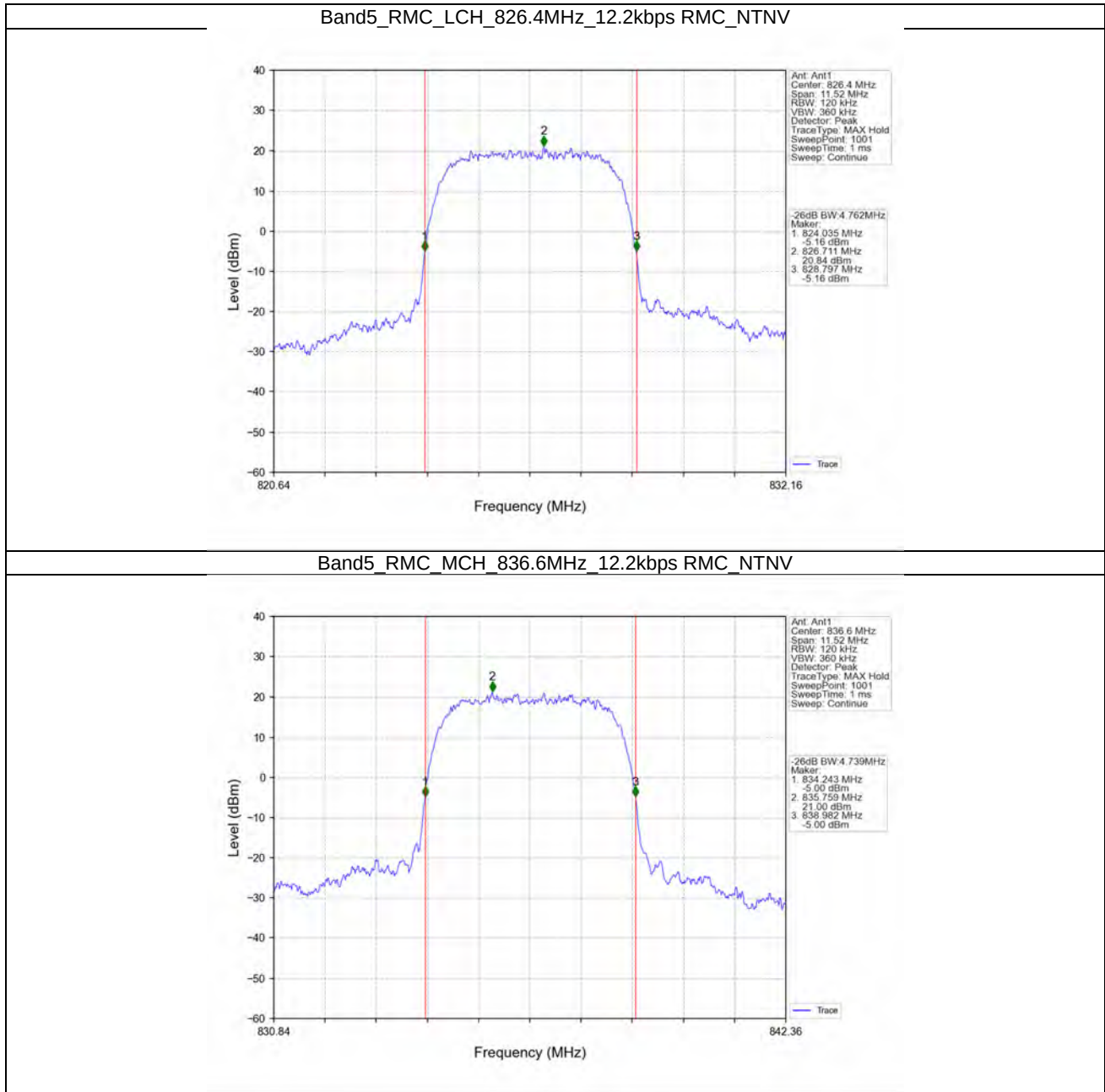
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4.2.2 Test Graph



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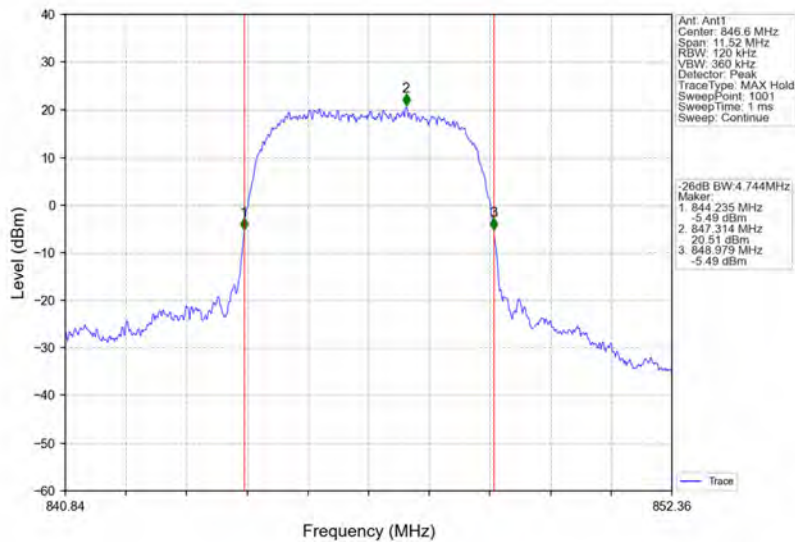
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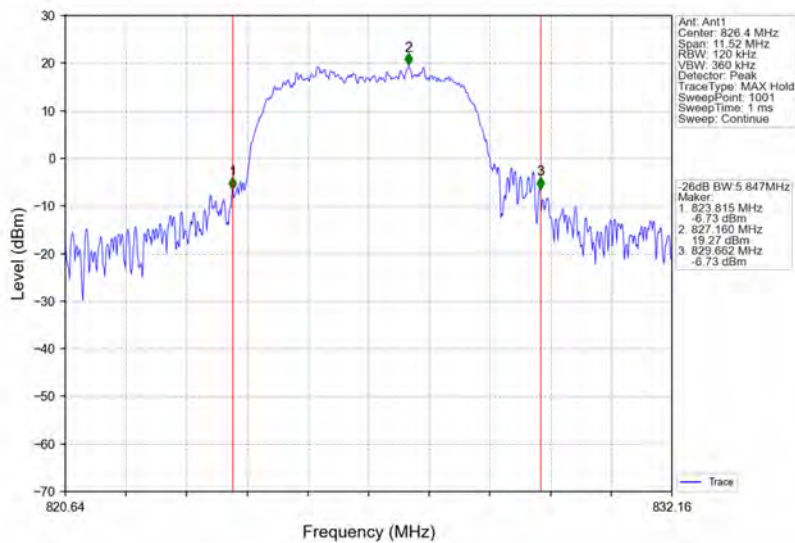
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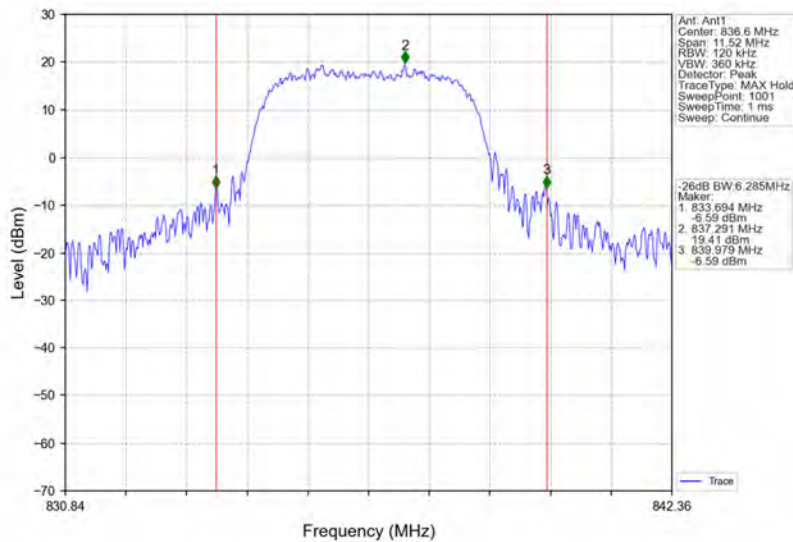
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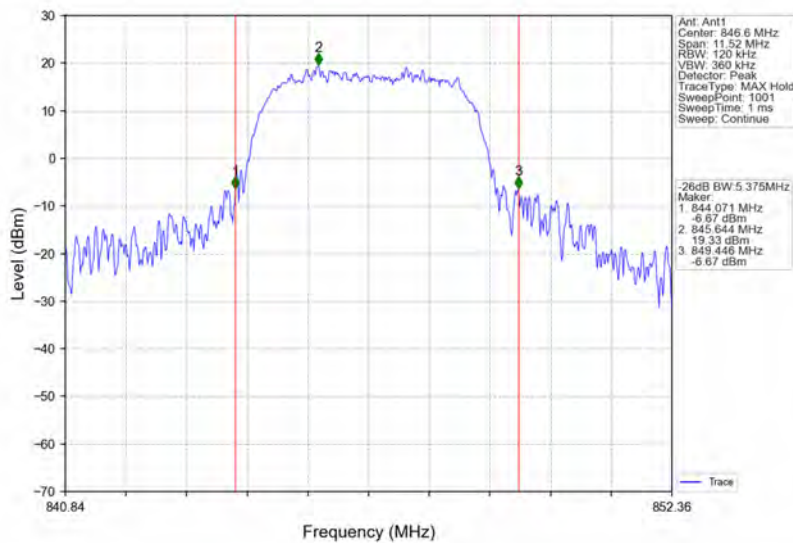
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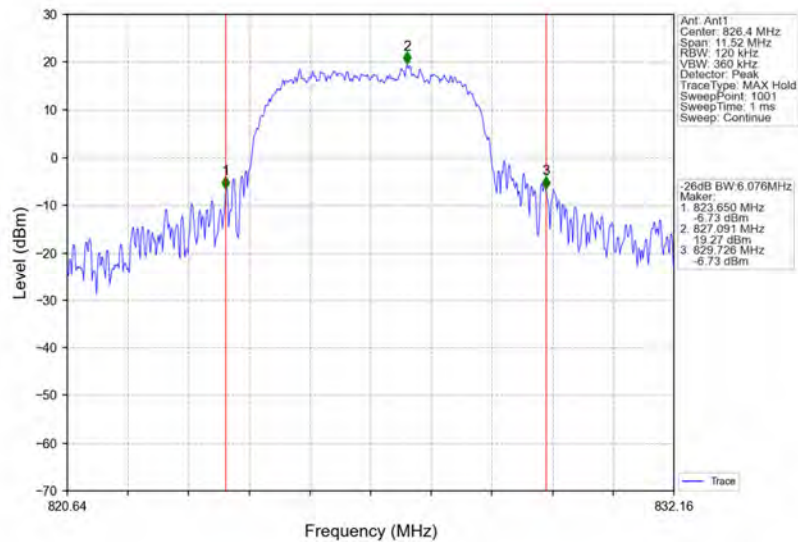
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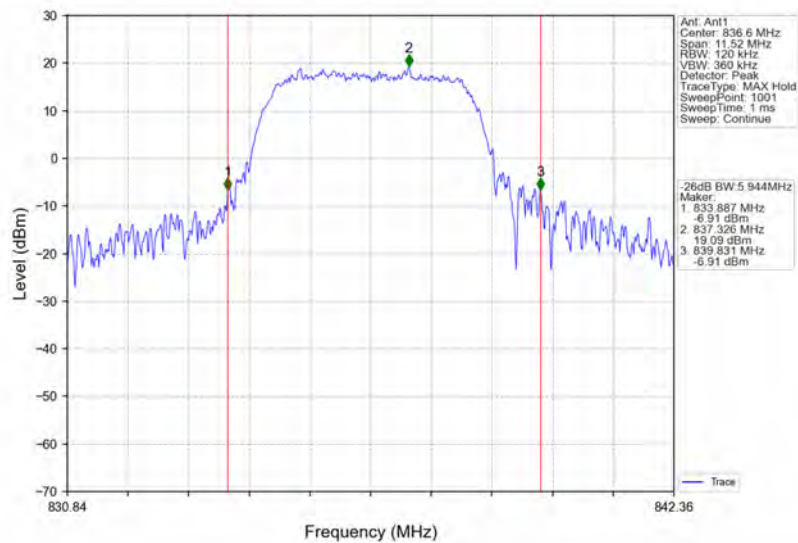
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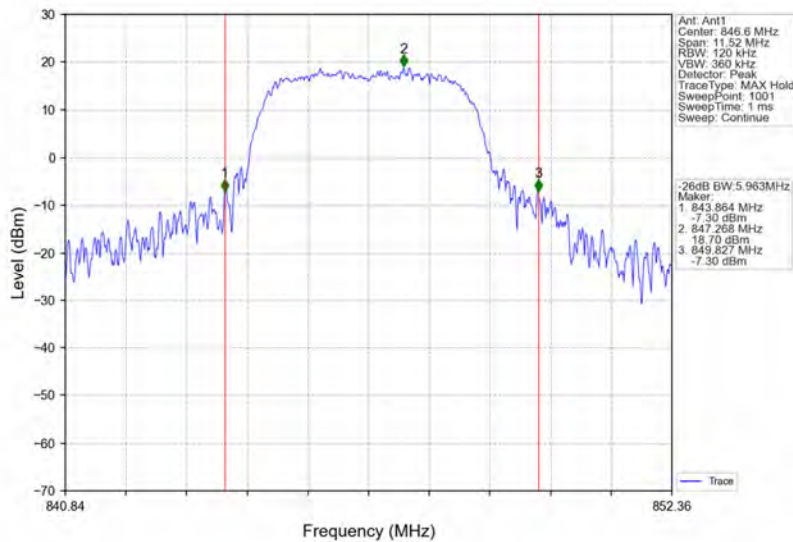
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5. Peak-Average Ratio

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	2.98	<=13	Pass
			836.6	3.00	<=13	Pass
			846.6	3.03	<=13	Pass
	HSDPA	Subtest 1	826.4	5.72	<=13	Pass
			836.6	5.73	<=13	Pass
			846.6	5.79	<=13	Pass
	HSUPA	Subtest 1	826.4	5.63	<=13	Pass
			836.6	5.62	<=13	Pass
			846.6	5.81	<=13	Pass



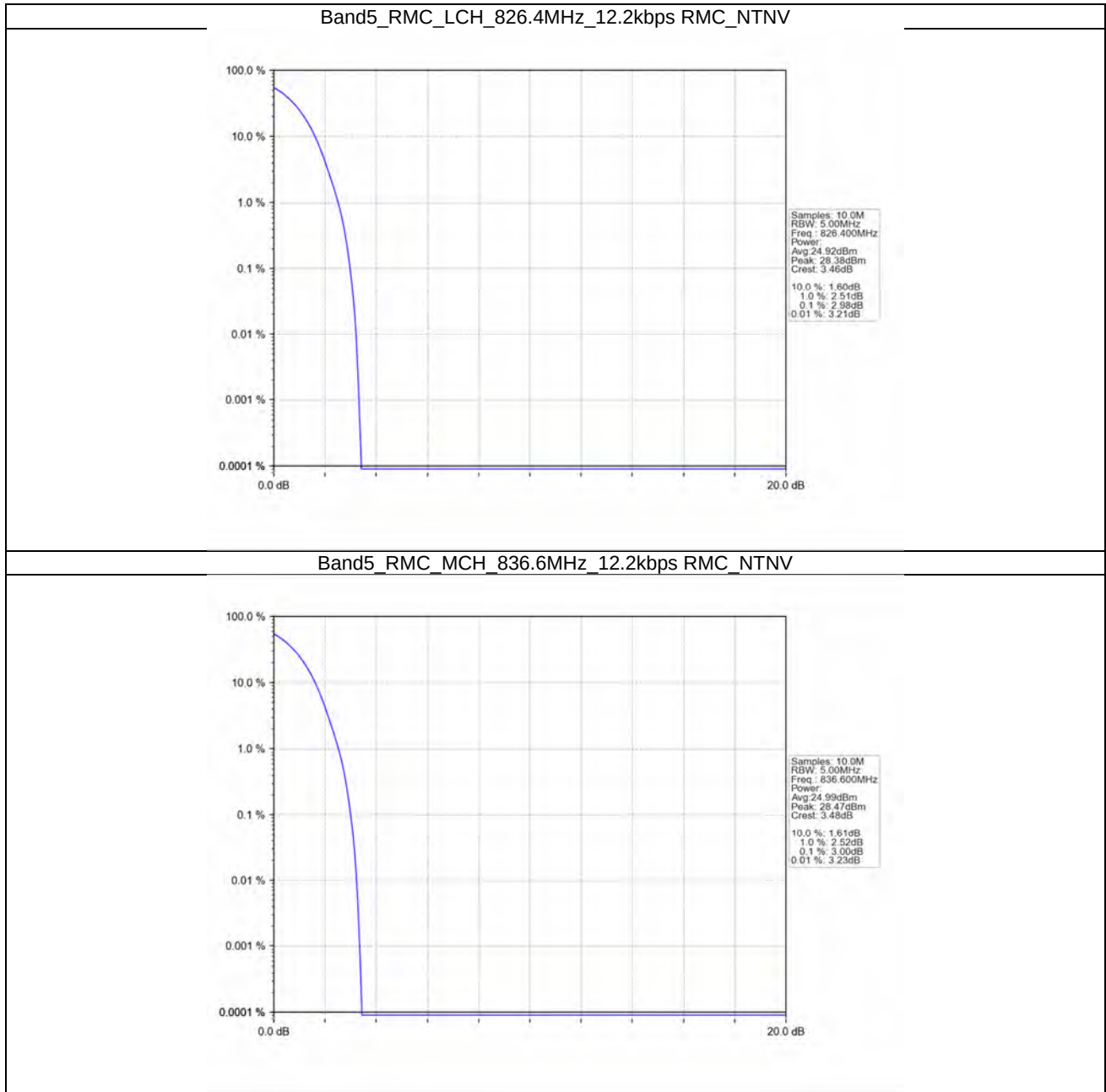
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5.1.2 Test Graph



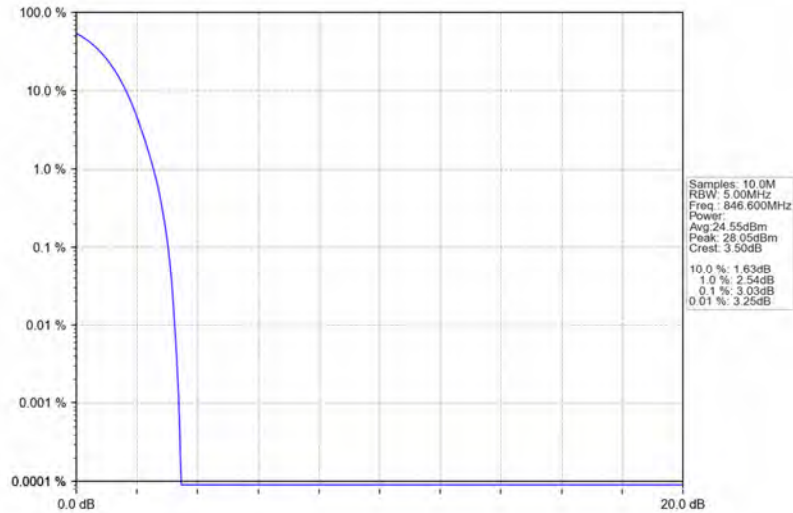
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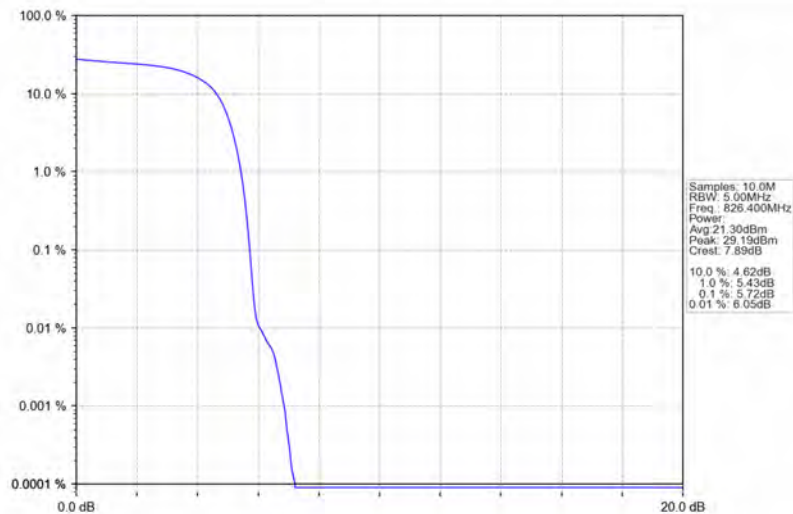
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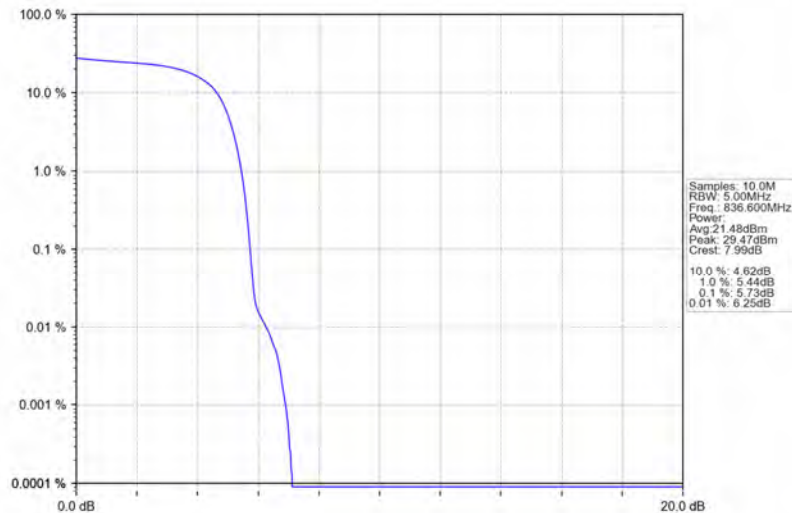
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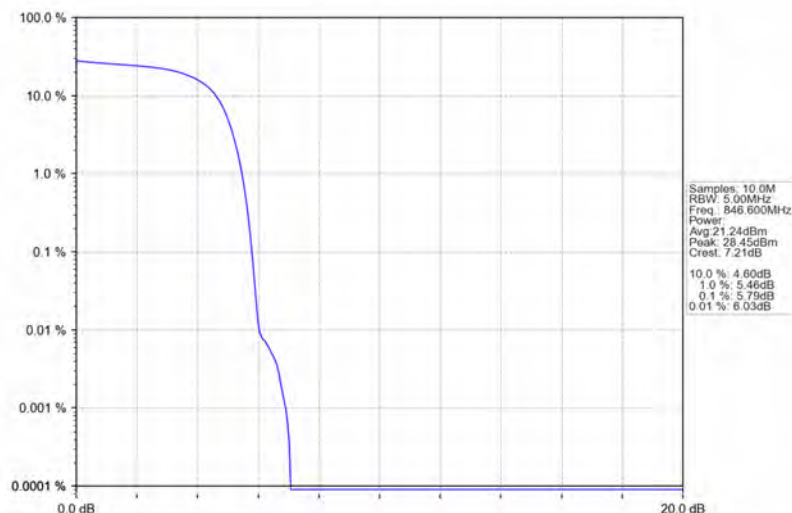
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Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



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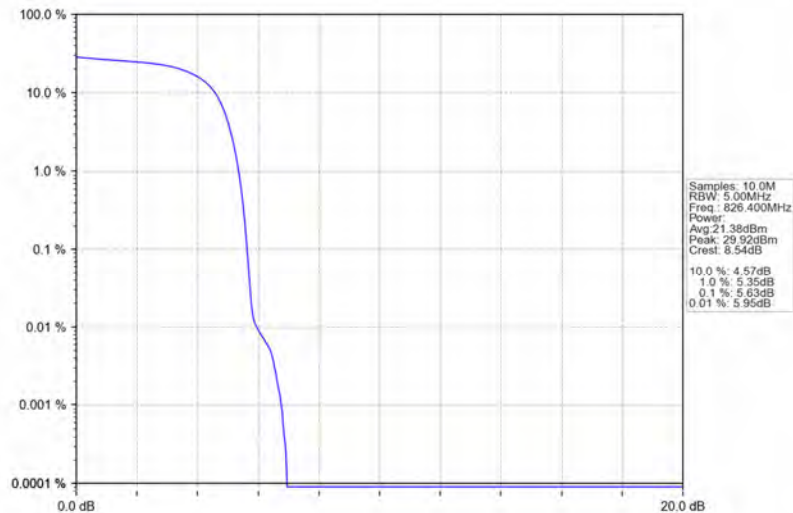
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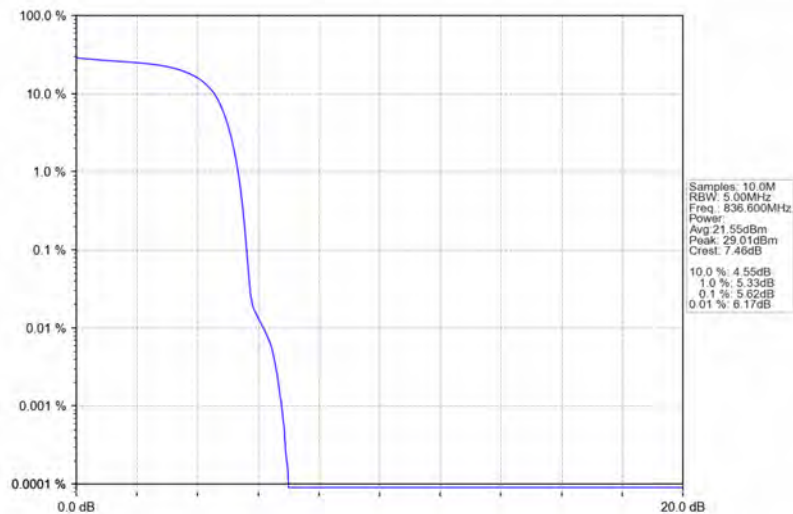
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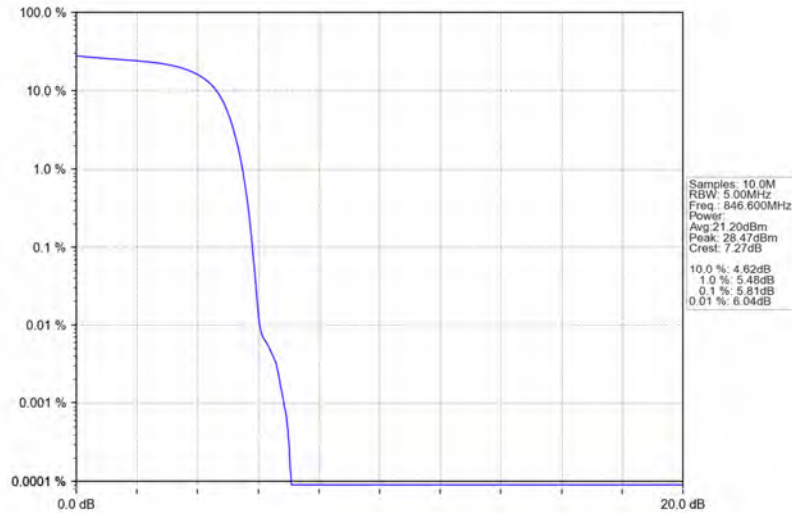
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6. Spurious Emission

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
	HSDPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass



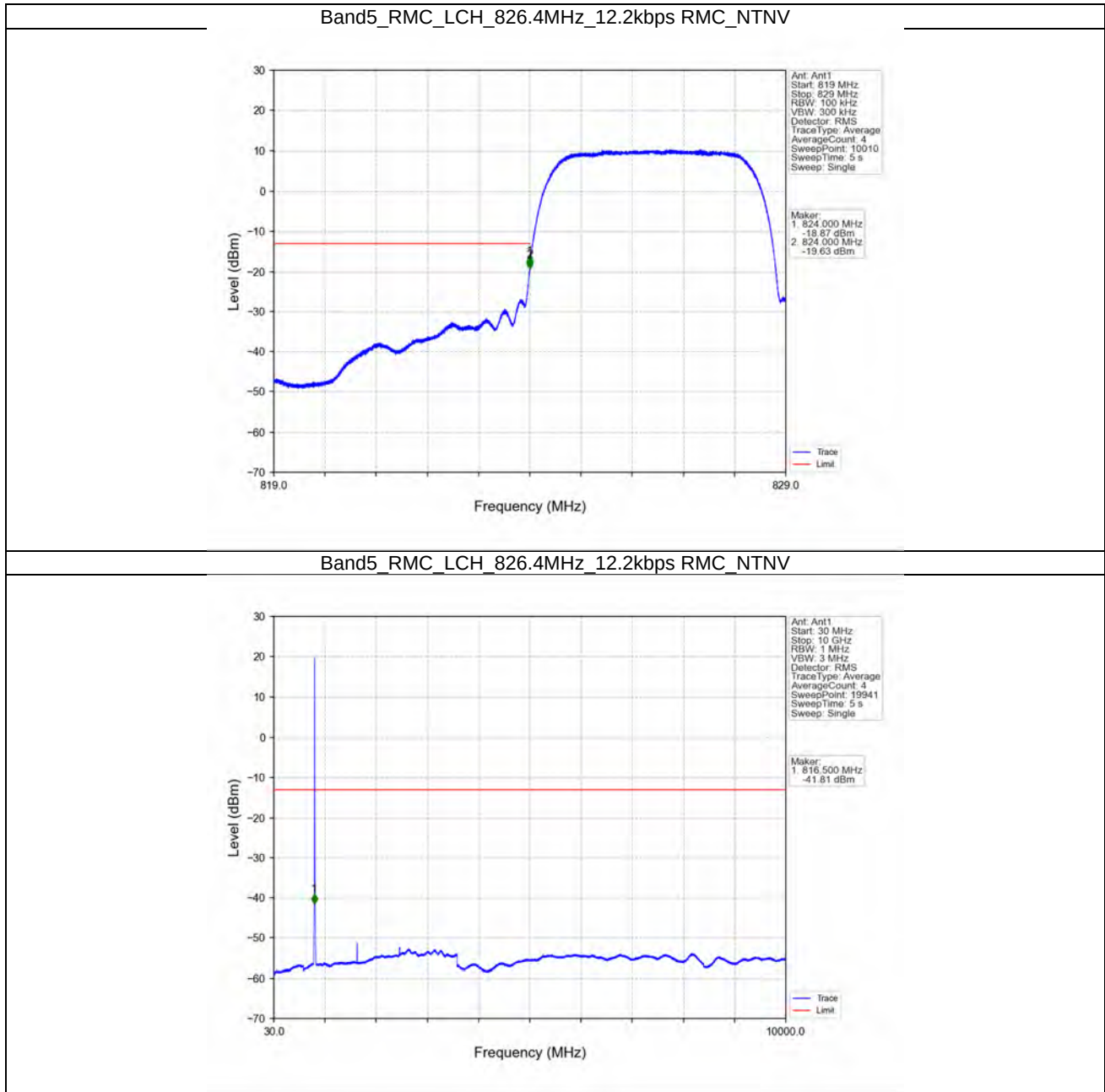
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6.1.2 Test Graph



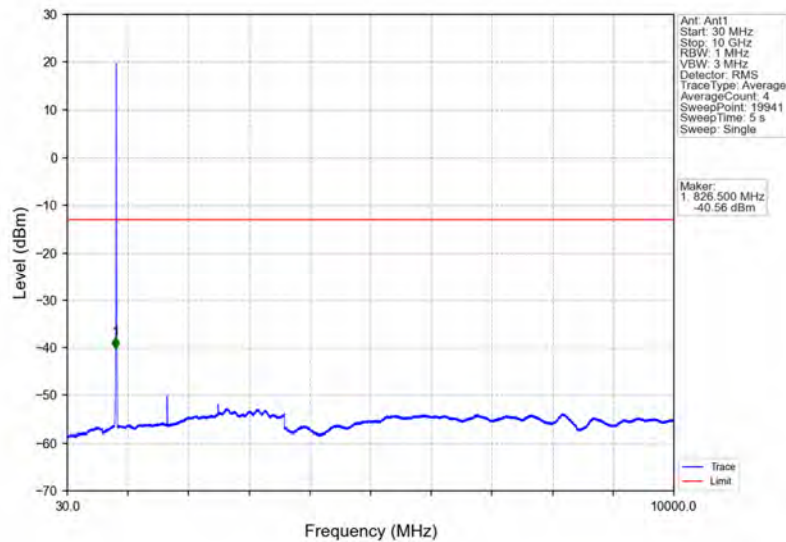
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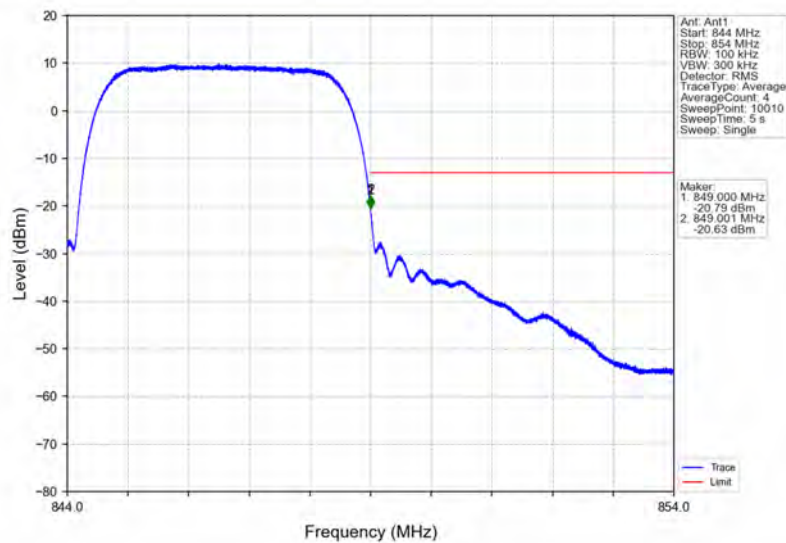
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Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



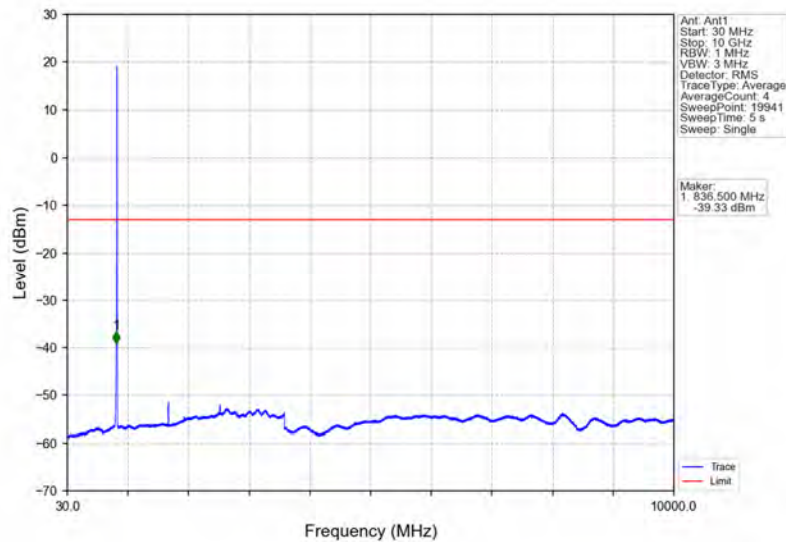
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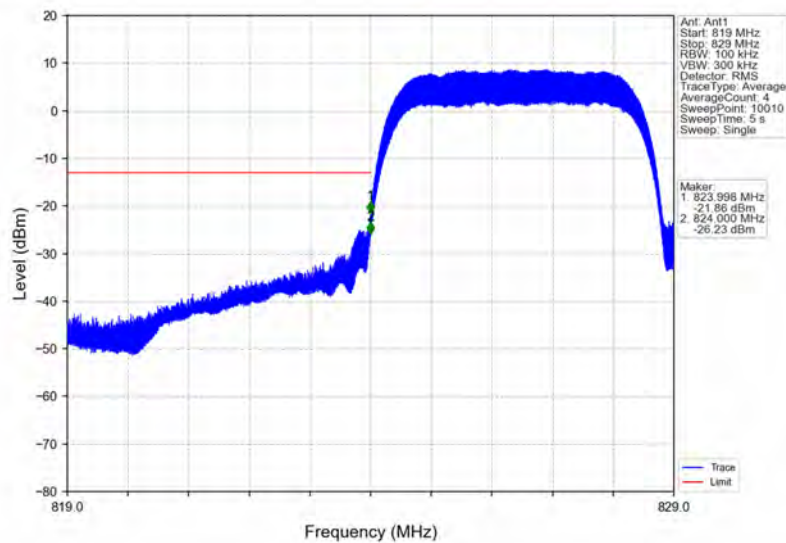
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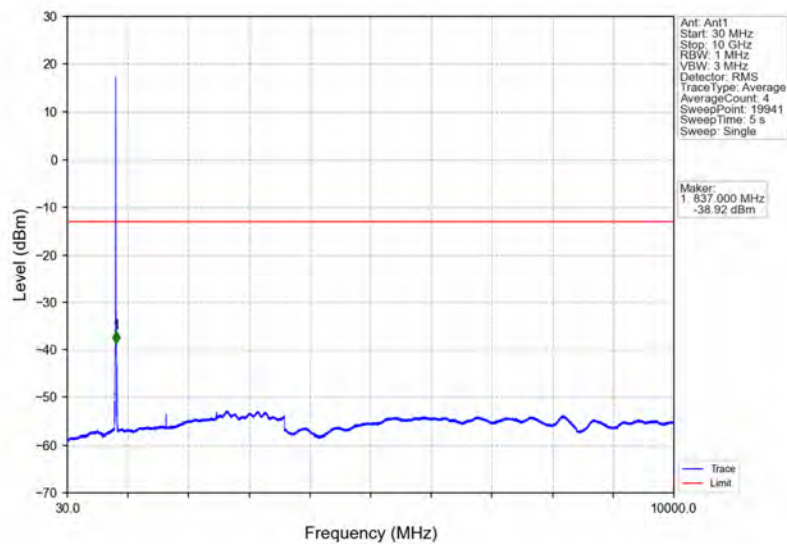
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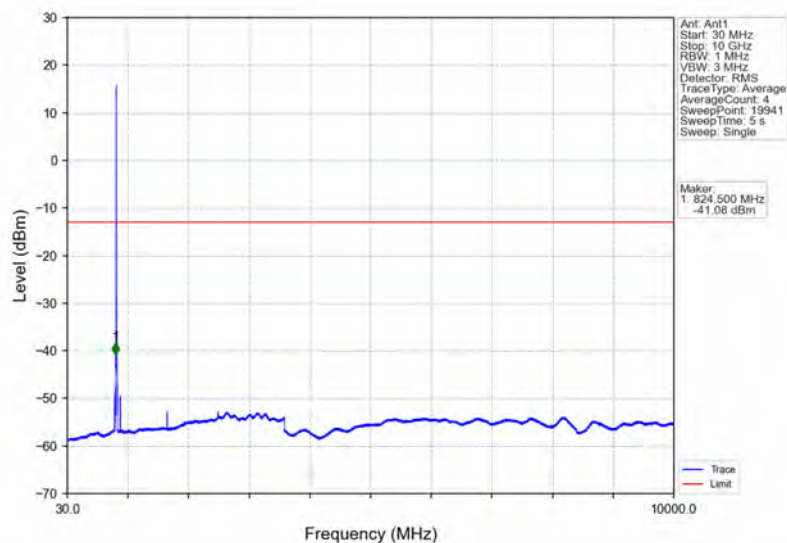
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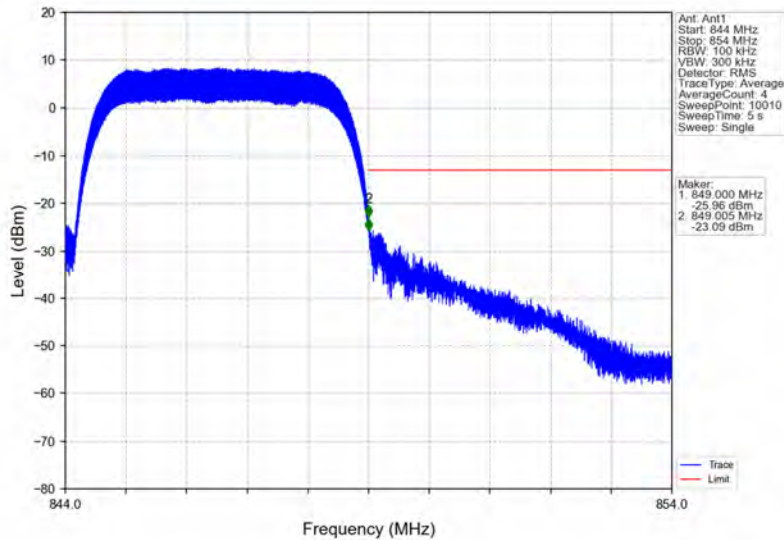
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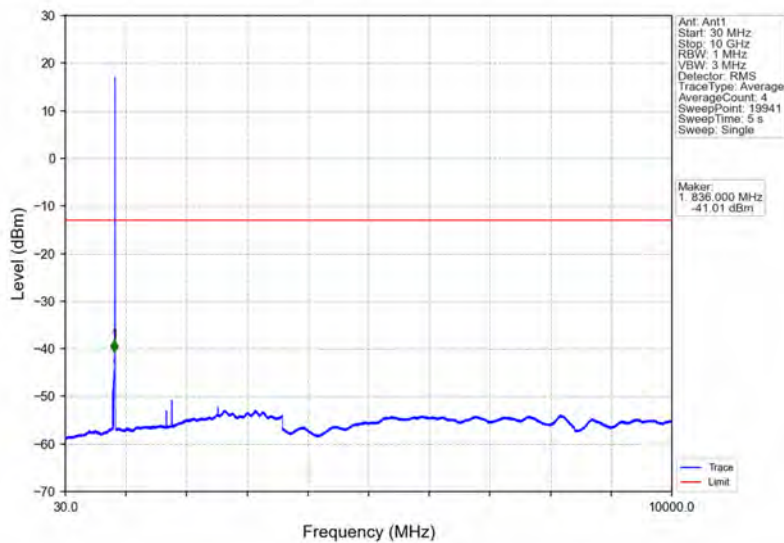
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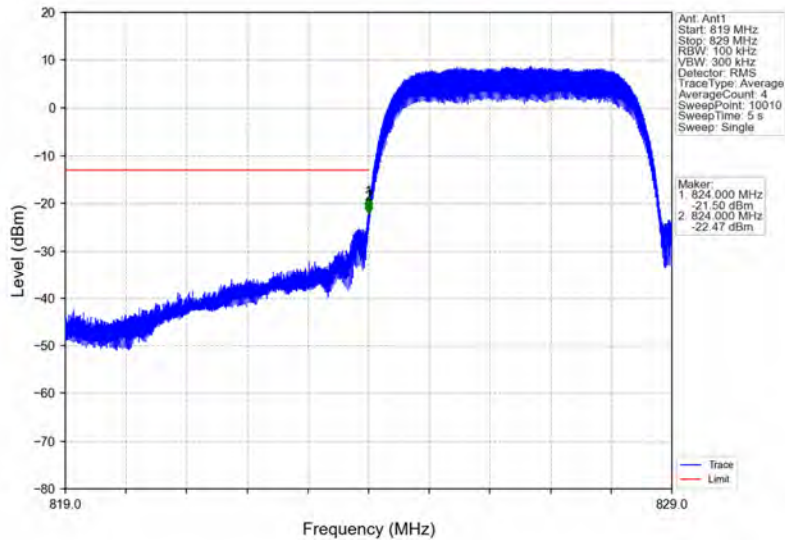
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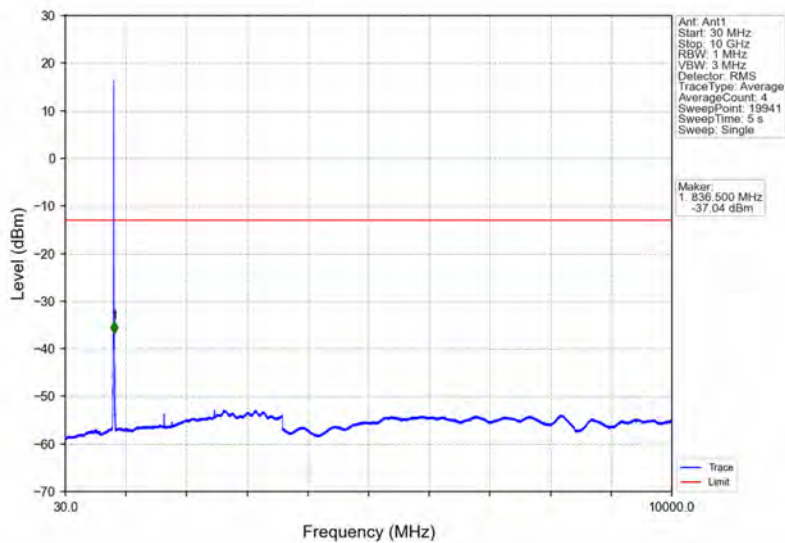
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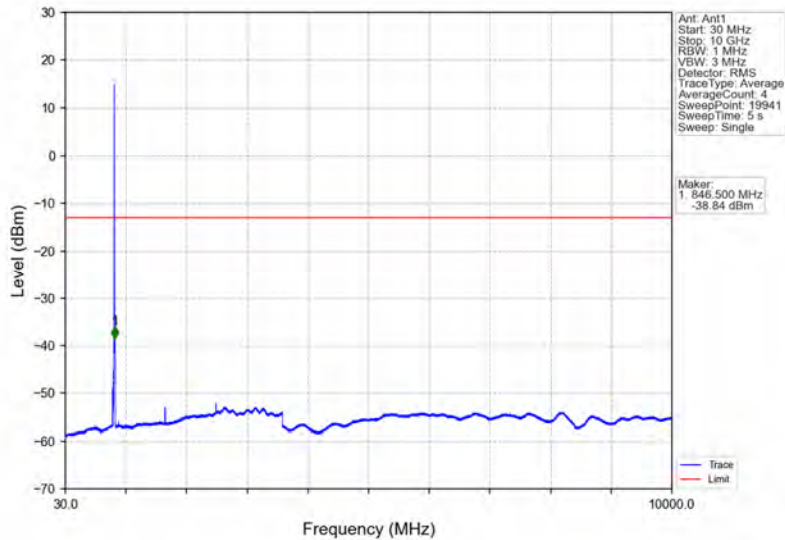
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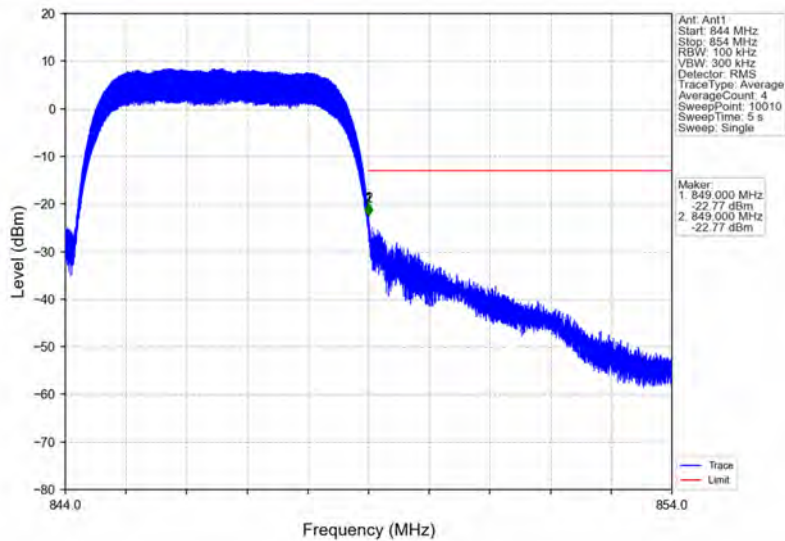
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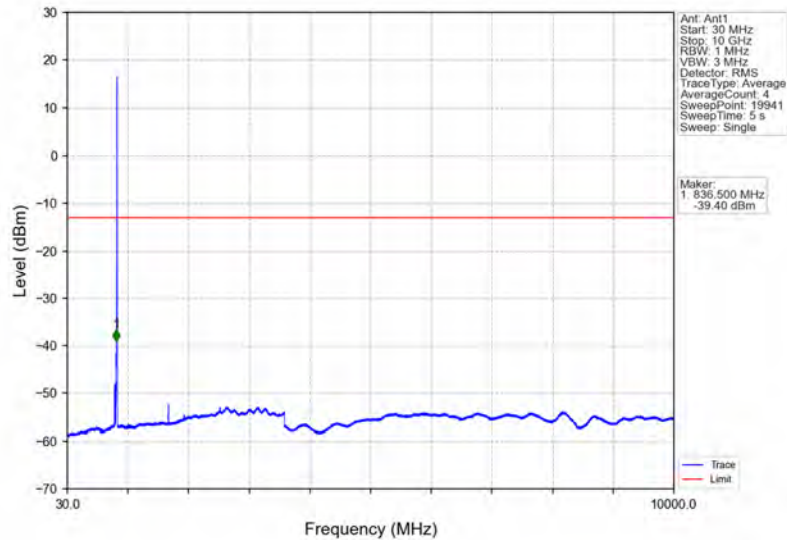
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