1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 Band5_ERP

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	23.95	-1.12	20.68	<=38.45	Pass
			836.6	23.89	-1.12	20.62	<=38.45	Pass
			846.6	23.89	-1.12	20.62	<=38.45	Pass
	HSDPA	Subtest 1	826.4	22.35	-1.12	19.08	<=38.45	Pass
		Subtest 2	826.4	22.34	-1.12	19.07	<=38.45	Pass
		Subtest 3	826.4	22.33	-1.12	19.06	<=38.45	Pass
		Subtest 4	826.4	22.33	-1.12	19.06	<=38.45	Pass
		Subtest 1	836.6	22.23	-1.12	18.96	<=38.45	Pass
		Subtest 2	836.6	22.24	-1.12	18.97	<=38.45	Pass
		Subtest 3	836.6	22.22	-1.12	18.95	<=38.45	Pass
		Subtest 4	836.6	22.24	-1.12	18.97	<=38.45	Pass
		Subtest 1	846.6	22.18	-1.12	18.91	<=38.45	Pass
		Subtest 2	846.6	22.18	-1.12	18.91	<=38.45	Pass
		Subtest 3	846.6	22.17	-1.12	18.90	<=38.45	Pass
		Subtest 4	846.6	22.19	-1.12	18.92	<=38.45	Pass
	HSUPA	Subtest 1	826.4	19.98	-1.12	16.71	<=38.45	Pass
		Subtest 2	826.4	20.21	-1.12	16.94	<=38.45	Pass
		Subtest 3	826.4	20.46	-1.12	17.19	<=38.45	Pass
		Subtest 4	826.4	20.46	-1.12	17.19	<=38.45	Pass
		Subtest 5	826.4	20.38	-1.12	17.11	<=38.45	Pass
		Subtest 1	836.6	20.12	-1.12	16.85	<=38.45	Pass
		Subtest 2	836.6	19.90	-1.12	16.63	<=38.45	Pass
		Subtest 3	836.6	20.11	-1.12	16.84	<=38.45	Pass
		Subtest 4	836.6	20.12	-1.12	16.85	<=38.45	Pass
		Subtest 5	836.6	20.10	-1.12	16.83	<=38.45	Pass
		Subtest 1	846.6	20.09	-1.12	16.82	<=38.45	Pass
		Subtest 2	846.6	20.07	-1.12	16.80	<=38.45	Pass
		Subtest 3	846.6	20.33	-1.12	17.06	<=38.45	Pass
		Subtest 4	846.6	20.07	-1.12	16.80	<=38.45	Pass
		Subtest 5	846.6	20.31	-1.12	17.04	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 Band5

Band: 5							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.27	-3.704	-0.0045	-2.5 to 2.5	Pass
			3.85	-4.096	-0.0050	-2.5 to 2.5	Pass
			4.43	-3.559	-0.0043	-2.5 to 2.5	Pass
		-30	3.85	-3.882	-0.0047	-2.5 to 2.5	Pass
		-20	3.85	-2.976	-0.0036	-2.5 to 2.5	Pass

		-10	3.85	-3.004	-0.0036	-2.5 to 2.5	Pass
		0	3.85	-2.642	-0.0032	-2.5 to 2.5	Pass
		10	3.85	-2.542	-0.0031	-2.5 to 2.5	Pass
		30	3.85	-3.408	-0.0041	-2.5 to 2.5	Pass
		40	3.85	-2.579	-0.0031	-2.5 to 2.5	Pass
		50	3.85	-1.839	-0.0022	-2.5 to 2.5	Pass
	836.6	20	3.27	-2.727	-0.0033	-2.5 to 2.5	Pass
			3.85	-2.084	-0.0025	-2.5 to 2.5	Pass
			4.43	-1.639	-0.0020	-2.5 to 2.5	Pass
		-30	3.85	-1.660	-0.0020	-2.5 to 2.5	Pass
		-20	3.85	-2.408	-0.0029	-2.5 to 2.5	Pass
		-10	3.85	-1.733	-0.0021	-2.5 to 2.5	Pass
		0	3.85	-2.374	-0.0028	-2.5 to 2.5	Pass
		10	3.85	-1.694	-0.0020	-2.5 to 2.5	Pass
		30	3.85	-1.430	-0.0017	-2.5 to 2.5	Pass
		40	3.85	-1.394	-0.0017	-2.5 to 2.5	Pass
		50	3.85	-1.571	-0.0019	-2.5 to 2.5	Pass
	846.6	20	3.27	-0.246	-0.0003	-2.5 to 2.5	Pass
			3.85	-1.508	-0.0018	-2.5 to 2.5	Pass
			4.43	-2.218	-0.0026	-2.5 to 2.5	Pass
		-30	3.85	-1.237	-0.0015	-2.5 to 2.5	Pass
		-20	3.85	-0.843	-0.0010	-2.5 to 2.5	Pass
		-10	3.85	-0.901	-0.0011	-2.5 to 2.5	Pass
		0	3.85	-0.942	-0.0011	-2.5 to 2.5	Pass
		10	3.85	1.304	0.0015	-2.5 to 2.5	Pass
		30	3.85	-0.483	-0.0006	-2.5 to 2.5	Pass
		40	3.85	-0.443	-0.0005	-2.5 to 2.5	Pass
		50	3.85	-1.381	-0.0016	-2.5 to 2.5	Pass
HSDPA	826.4	20	3.27	-6.082	-0.0074	-2.5 to 2.5	Pass
			3.85	-5.203	-0.0063	-2.5 to 2.5	Pass
			4.43	-5.167	-0.0063	-2.5 to 2.5	Pass
		-30	3.85	-5.204	-0.0063	-2.5 to 2.5	Pass
		-20	3.85	-4.866	-0.0059	-2.5 to 2.5	Pass
		-10	3.85	-4.721	-0.0057	-2.5 to 2.5	Pass
		0	3.85	-3.438	-0.0042	-2.5 to 2.5	Pass
		10	3.85	-5.286	-0.0064	-2.5 to 2.5	Pass
		30	3.85	-4.315	-0.0052	-2.5 to 2.5	Pass
		40	3.85	-4.292	-0.0052	-2.5 to 2.5	Pass
		50	3.85	-4.081	-0.0049	-2.5 to 2.5	Pass
	836.6	20	3.27	-3.538	-0.0042	-2.5 to 2.5	Pass
			3.85	-3.042	-0.0036	-2.5 to 2.5	Pass
			4.43	-3.235	-0.0039	-2.5 to 2.5	Pass
		-30	3.85	-3.467	-0.0041	-2.5 to 2.5	Pass
		-20	3.85	-2.666	-0.0032	-2.5 to 2.5	Pass
		-10	3.85	-3.184	-0.0038	-2.5 to 2.5	Pass
		0	3.85	-3.455	-0.0041	-2.5 to 2.5	Pass
		10	3.85	-2.622	-0.0031	-2.5 to 2.5	Pass
		30	3.85	-2.747	-0.0033	-2.5 to 2.5	Pass
		40	3.85	-2.967	-0.0035	-2.5 to 2.5	Pass
		50	3.85	-2.658	-0.0032	-2.5 to 2.5	Pass
	846.6	20	3.27	-2.606	-0.0031	-2.5 to 2.5	Pass
			3.85	-2.551	-0.0030	-2.5 to 2.5	Pass
			4.43	-2.377	-0.0028	-2.5 to 2.5	Pass
		-30	3.85	-2.622	-0.0031	-2.5 to 2.5	Pass
		-20	3.85	-1.996	-0.0024	-2.5 to 2.5	Pass
		-10	3.85	-2.003	-0.0024	-2.5 to 2.5	Pass
		0	3.85	-2.970	-0.0035	-2.5 to 2.5	Pass
		10	3.85	-2.733	-0.0032	-2.5 to 2.5	Pass
		30	3.85	-2.470	-0.0029	-2.5 to 2.5	Pass

		40	3.85	-2.921	-0.0035	-2.5 to 2.5	Pass
		50	3.85	-1.051	-0.0012	-2.5 to 2.5	Pass
HSUPA	826.4	20	3.27	3.095	0.0037	-2.5 to 2.5	Pass
			3.85	1.518	0.0018	-2.5 to 2.5	Pass
			4.43	1.240	0.0015	-2.5 to 2.5	Pass
		-30	3.85	0.690	0.0008	-2.5 to 2.5	Pass
		-20	3.85	3.675	0.0044	-2.5 to 2.5	Pass
		-10	3.85	1.954	0.0024	-2.5 to 2.5	Pass
		0	3.85	1.120	0.0014	-2.5 to 2.5	Pass
		10	3.85	1.693	0.0020	-2.5 to 2.5	Pass
		30	3.85	1.222	0.0015	-2.5 to 2.5	Pass
		40	3.85	2.040	0.0025	-2.5 to 2.5	Pass
		50	3.85	1.845	0.0022	-2.5 to 2.5	Pass
	836.6	20	3.27	4.861	0.0058	-2.5 to 2.5	Pass
			3.85	2.794	0.0033	-2.5 to 2.5	Pass
			4.43	1.250	0.0015	-2.5 to 2.5	Pass
		-30	3.85	2.531	0.0030	-2.5 to 2.5	Pass
		-20	3.85	3.433	0.0041	-2.5 to 2.5	Pass
		-10	3.85	3.523	0.0042	-2.5 to 2.5	Pass
		0	3.85	0.742	0.0009	-2.5 to 2.5	Pass
		10	3.85	3.172	0.0038	-2.5 to 2.5	Pass
		30	3.85	2.235	0.0027	-2.5 to 2.5	Pass
		40	3.85	1.577	0.0019	-2.5 to 2.5	Pass
		50	3.85	5.080	0.0061	-2.5 to 2.5	Pass
	846.6	20	3.27	3.939	0.0047	-2.5 to 2.5	Pass
			3.85	4.898	0.0058	-2.5 to 2.5	Pass
			4.43	2.752	0.0033	-2.5 to 2.5	Pass
		-30	3.85	5.964	0.0070	-2.5 to 2.5	Pass
		-20	3.85	3.046	0.0036	-2.5 to 2.5	Pass
		-10	3.85	6.008	0.0071	-2.5 to 2.5	Pass
		0	3.85	4.111	0.0049	-2.5 to 2.5	Pass
		10	3.85	5.899	0.0070	-2.5 to 2.5	Pass
		30	3.85	6.870	0.0081	-2.5 to 2.5	Pass
		40	3.85	3.833	0.0045	-2.5 to 2.5	Pass
		50	3.85	3.126	0.0037	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band5_OBW

Band: 5						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.154	/	Pass
			836.6	4.165	/	Pass
			846.6	4.152	/	Pass
	HSDPA	Subtest 1	826.4	4.161	/	Pass
			836.6	4.182	/	Pass
			846.6	4.164	/	Pass
	HSUPA	Subtest 1	826.4	4.170	/	Pass
			836.6	4.174	/	Pass
			846.6	4.185	/	Pass

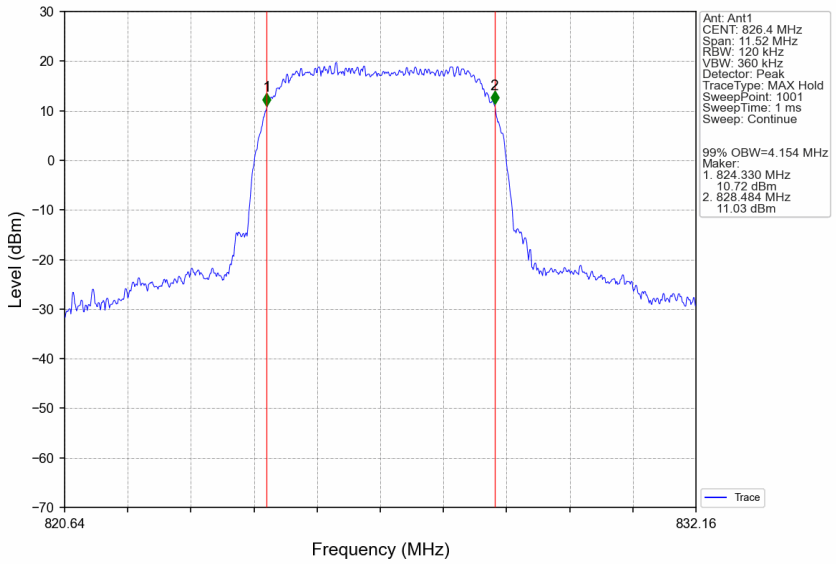
3.1.2 Band5_XDB

Band: 5						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.731	/	Pass
			836.6	4.731	/	Pass
			846.6	4.723	/	Pass
	HSDPA	Subtest 1	826.4	4.734	/	Pass
			836.6	4.753	/	Pass
			846.6	4.734	/	Pass
	HSUPA	Subtest 1	826.4	4.740	/	Pass
			836.6	4.733	/	Pass
			846.6	4.753	/	Pass

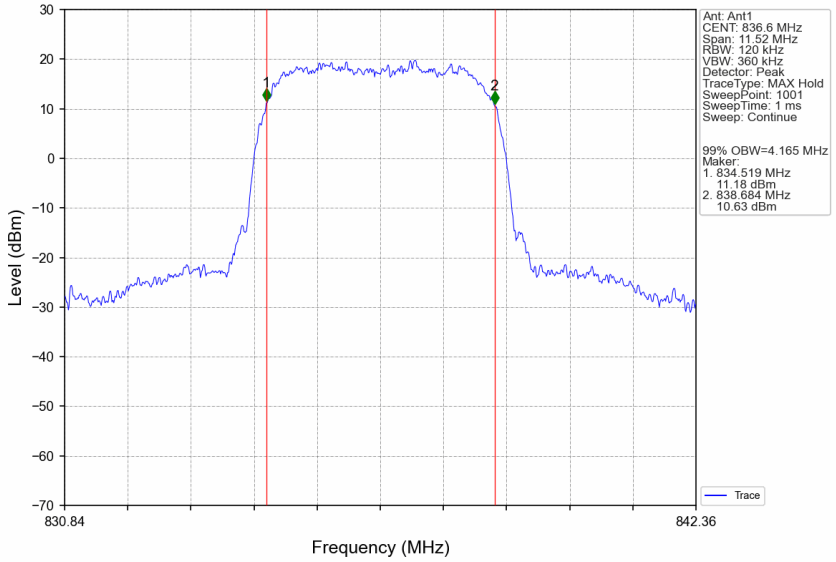
3.2 Test Graph

3.2.1 Band5_OBW

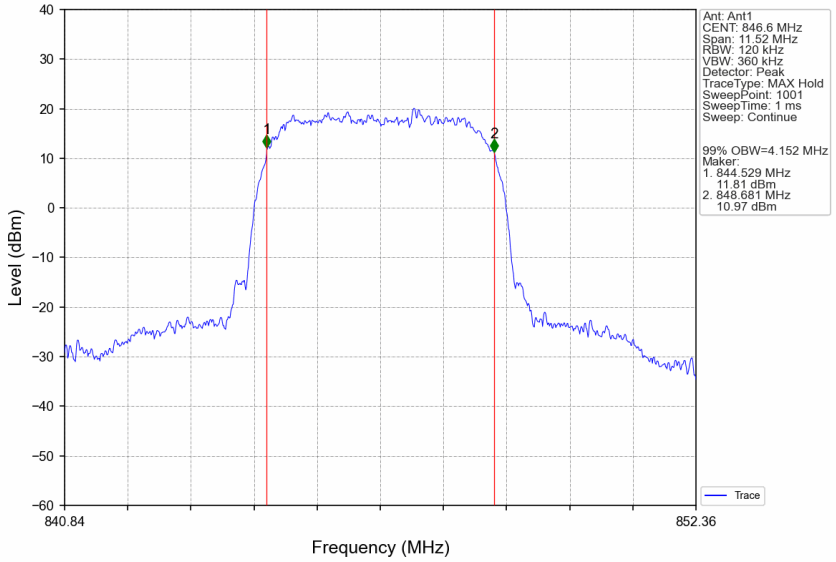
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



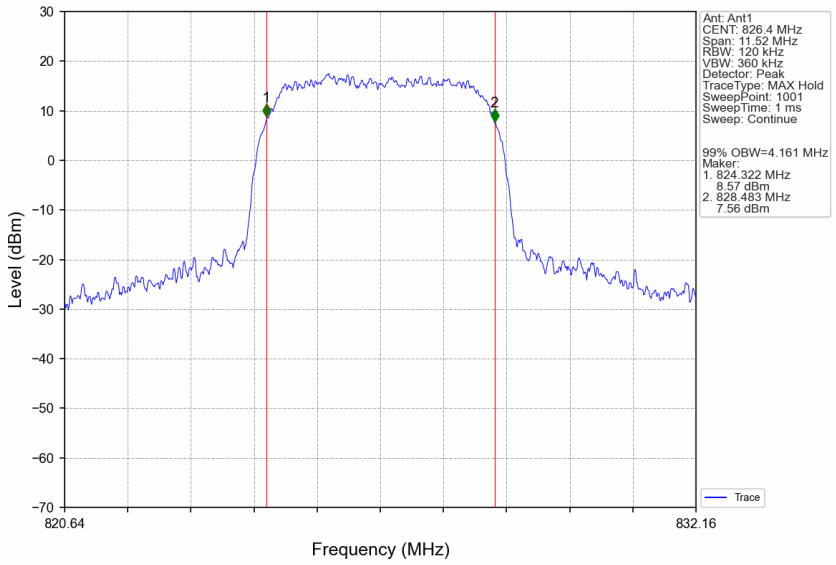
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



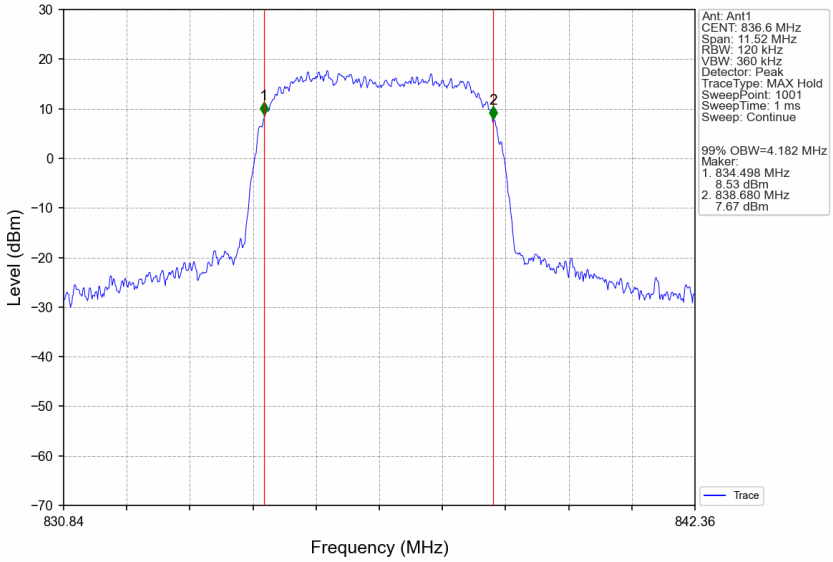
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



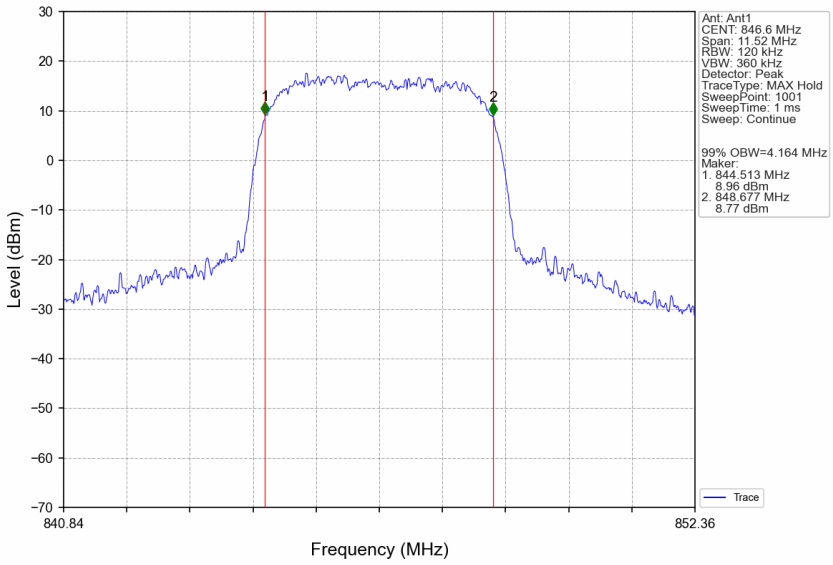
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



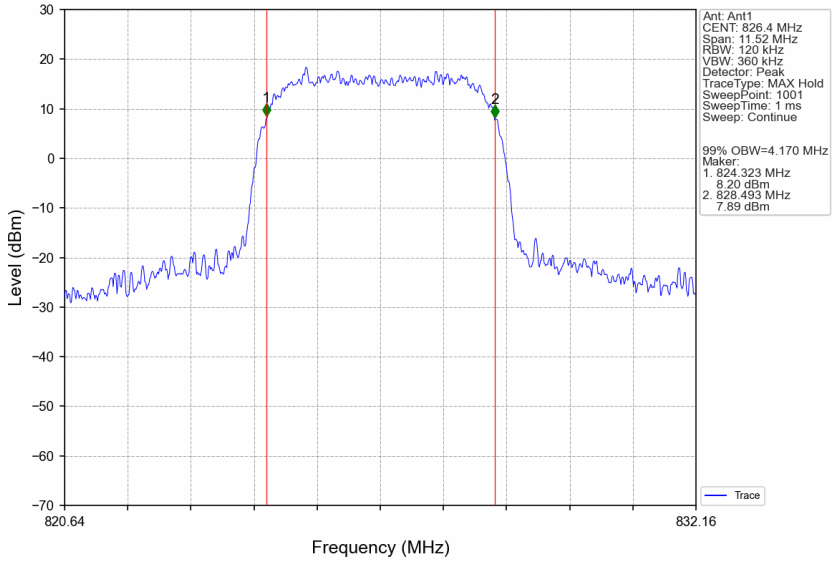
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



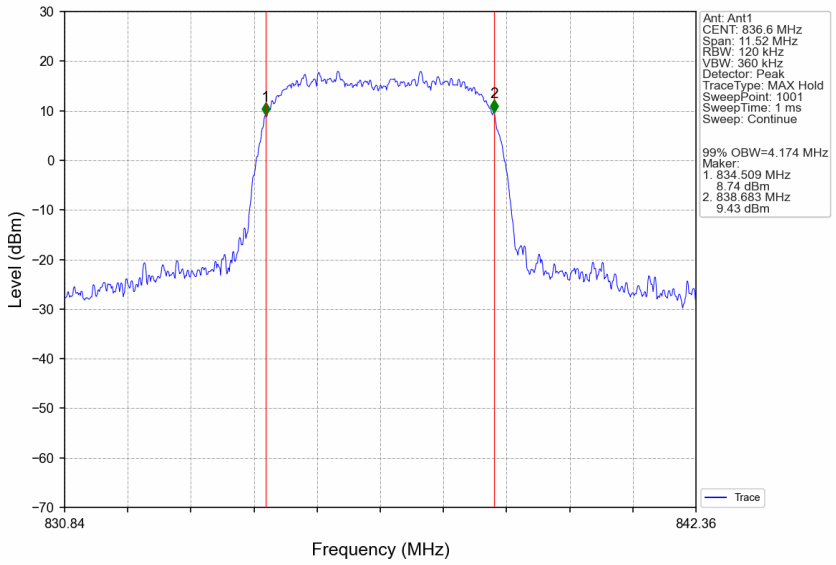
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



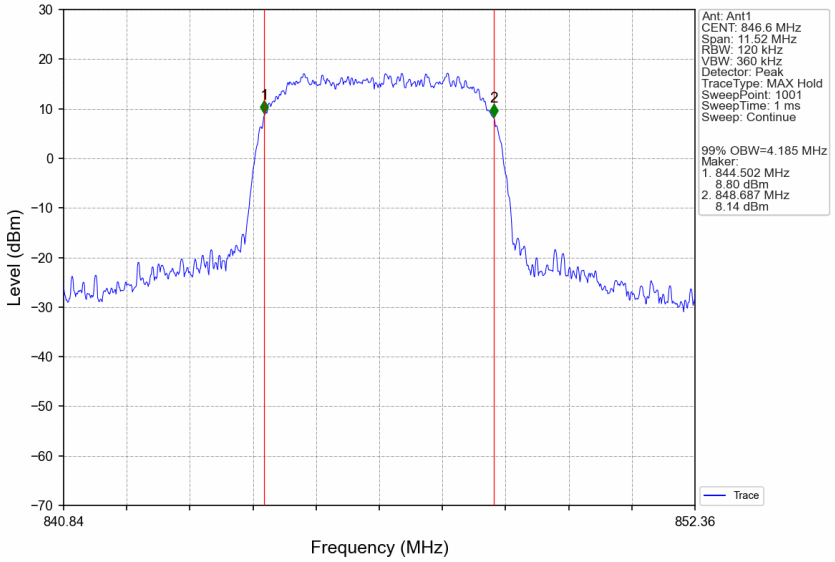
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV

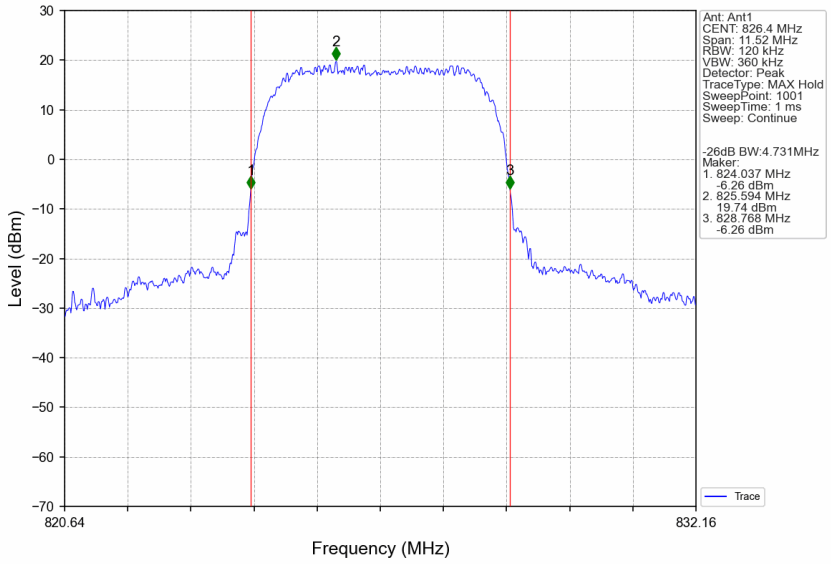


Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV

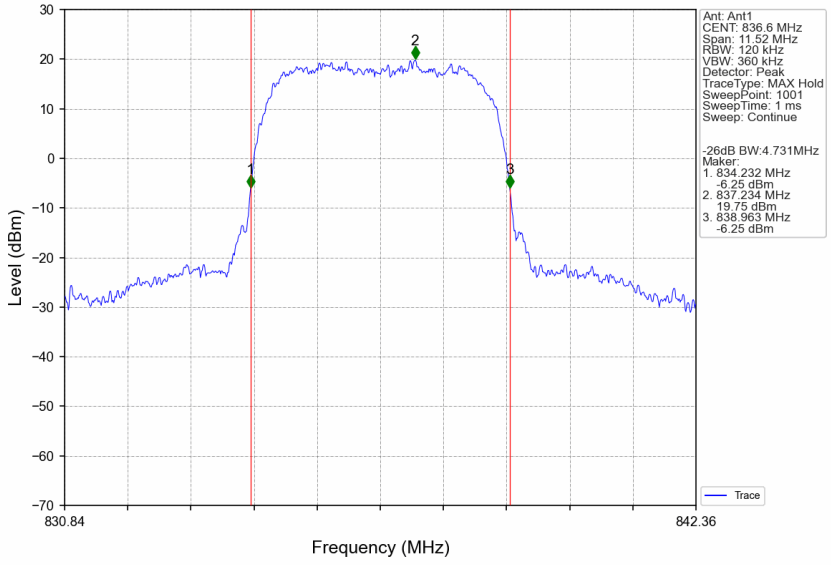


3.2.2 Band5_XDB

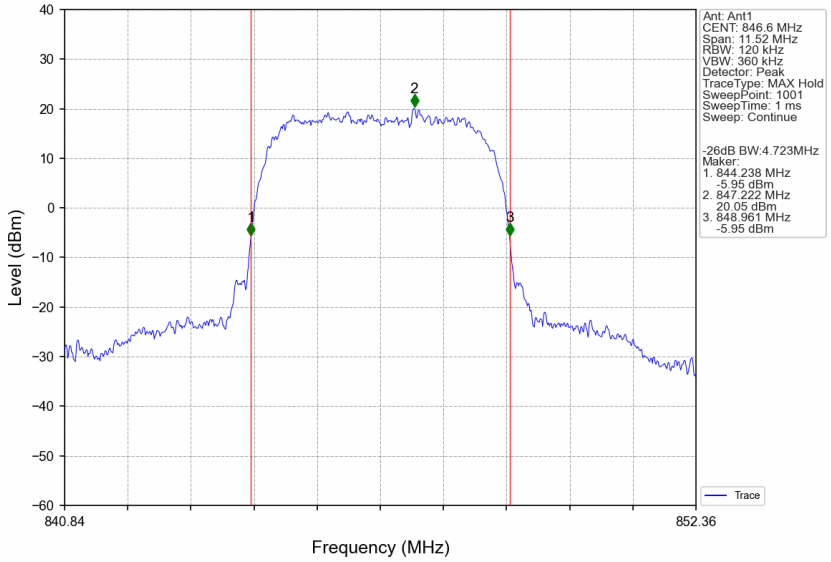
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



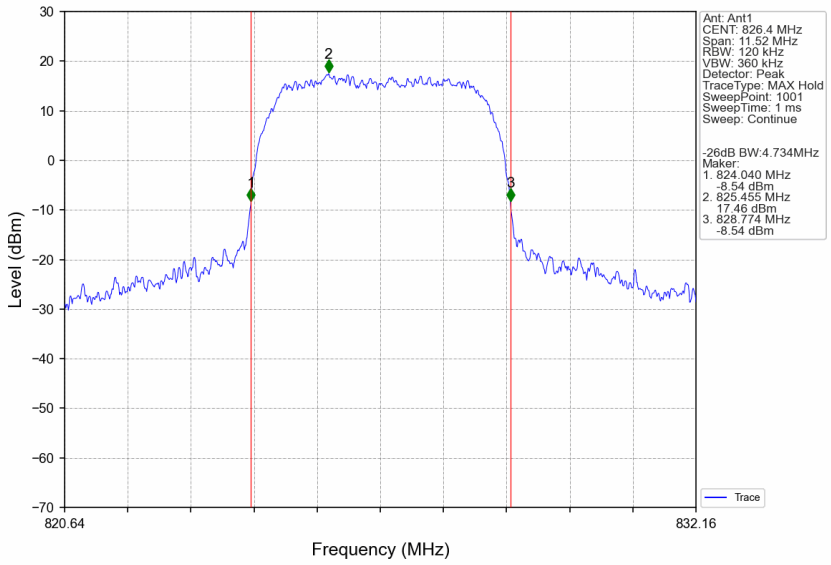
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



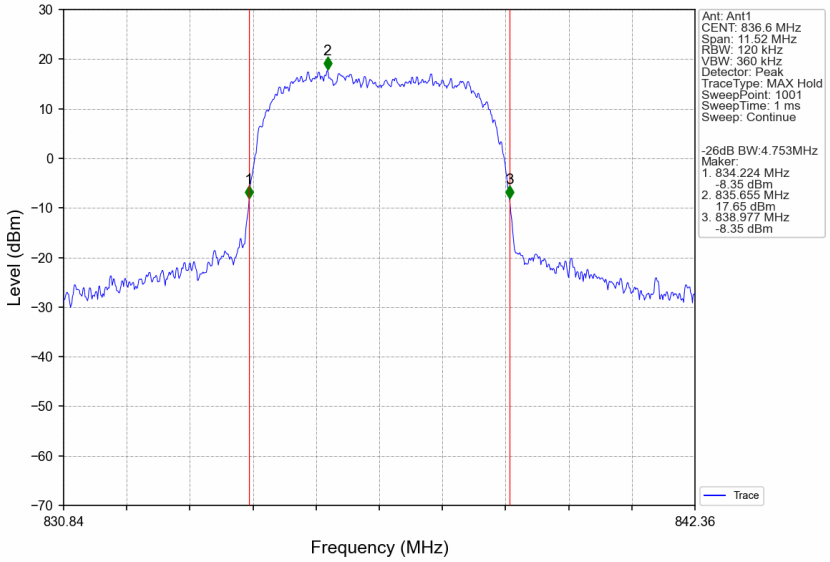
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



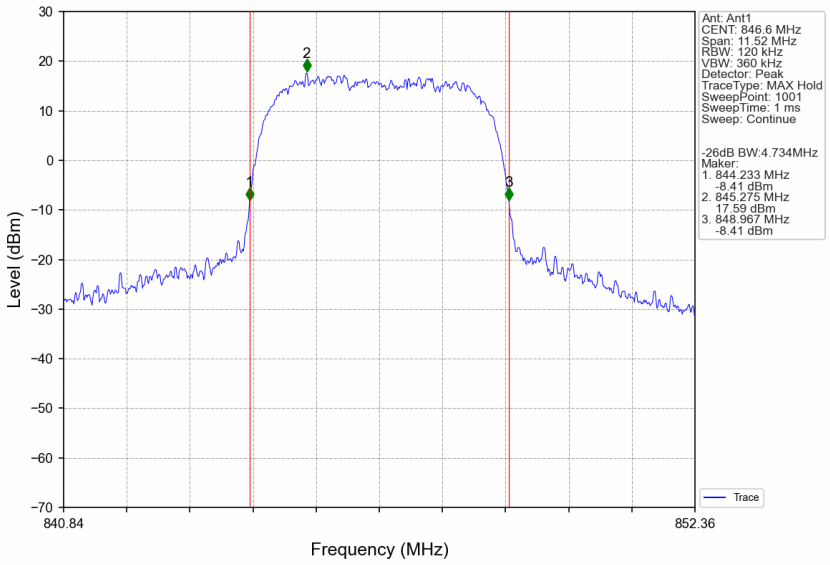
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



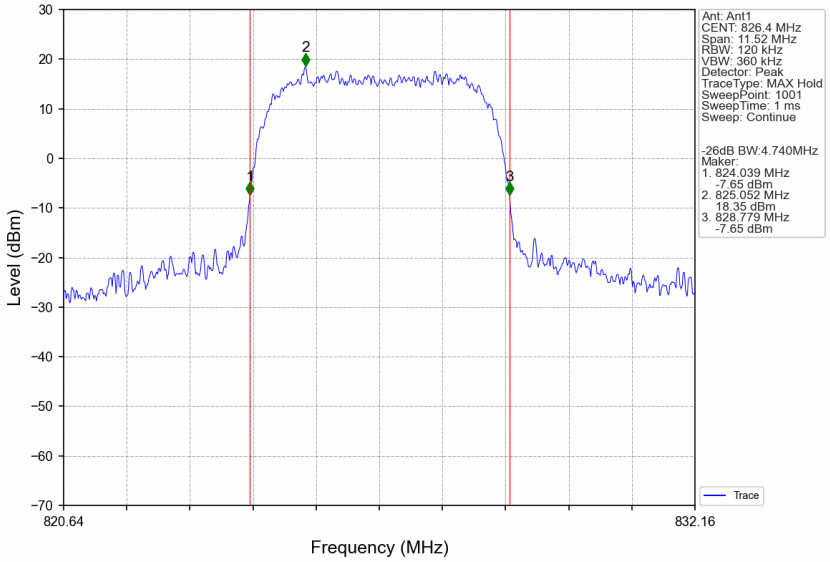
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



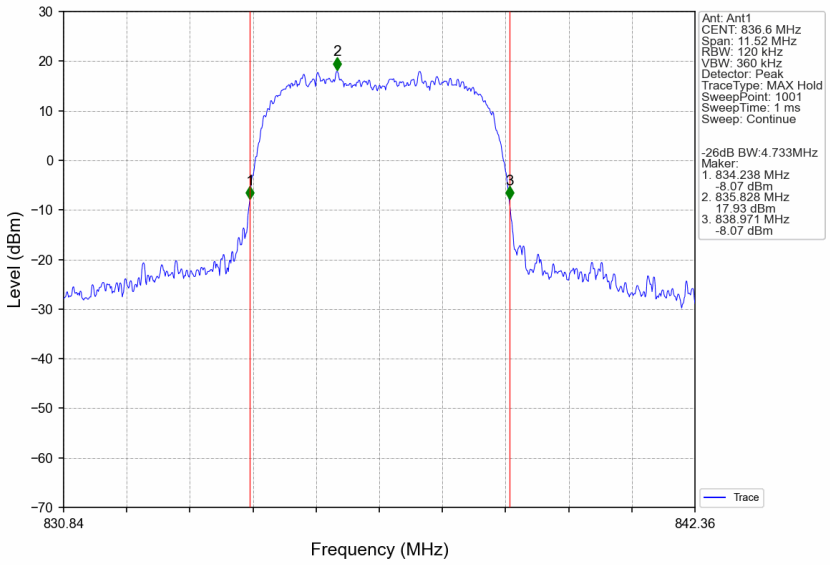
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



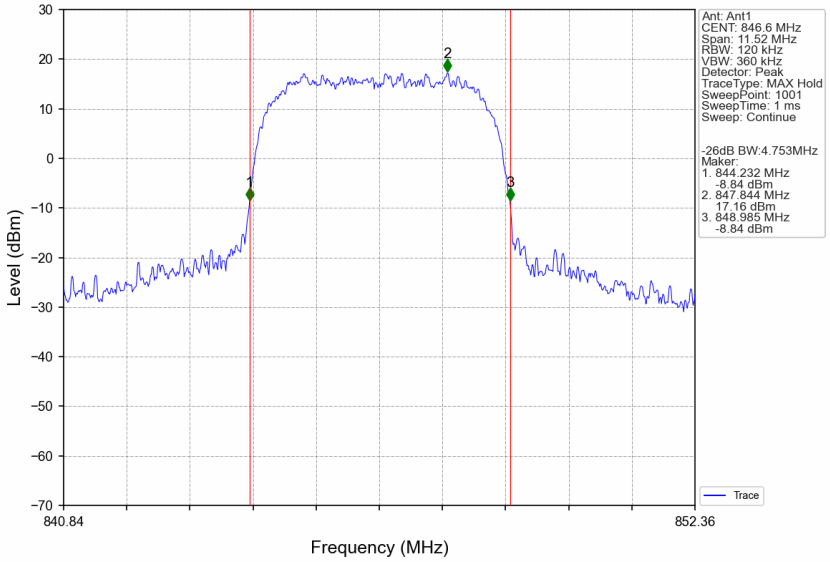
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



4. Peak-Average Ratio

4.1 Test Result

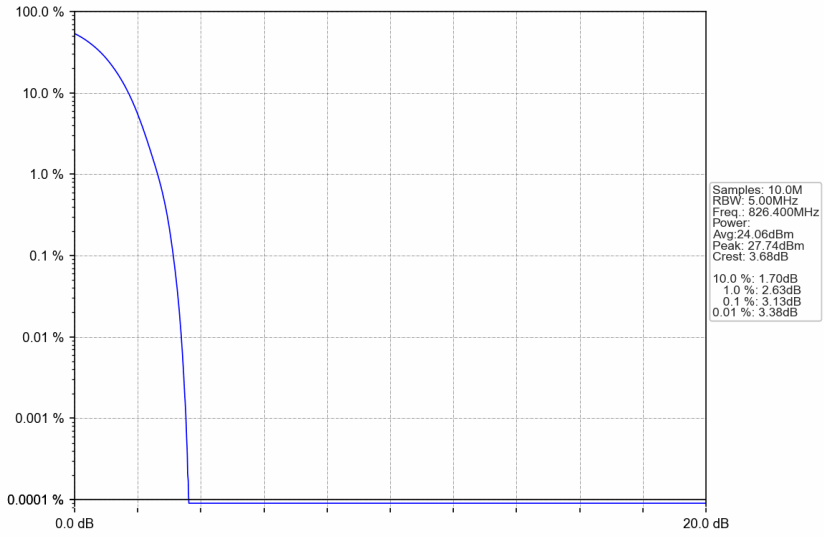
4.1.1 Band5

Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.13	<=13	Pass
			836.6	3.09	<=13	Pass
			846.6	3.07	<=13	Pass
	HSDPA	Subtest 1	826.4	6.09	<=13	Pass
			836.6	5.98	<=13	Pass
			846.6	6.06	<=13	Pass
	HSUPA	Subtest 1	826.4	7.12	<=13	Pass
			836.6	7.12	<=13	Pass
			846.6	7.14	<=13	Pass

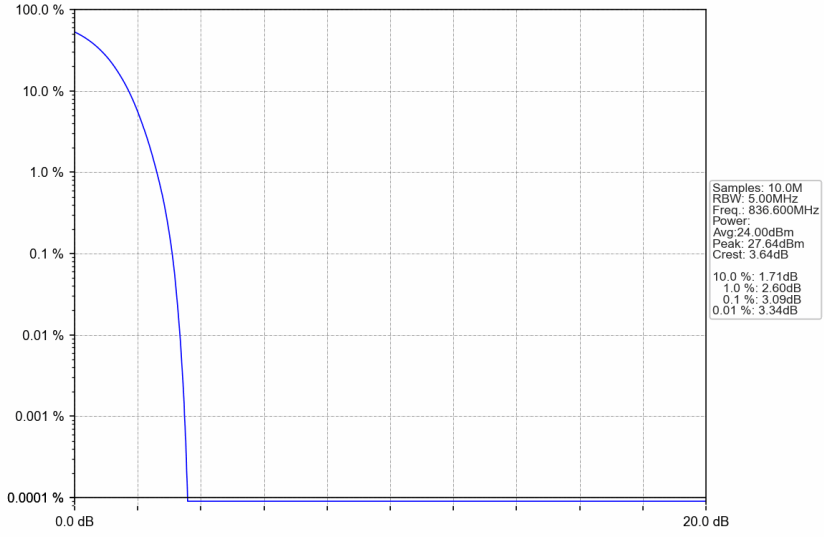
4.2 Test Graph

4.2.1 Band5

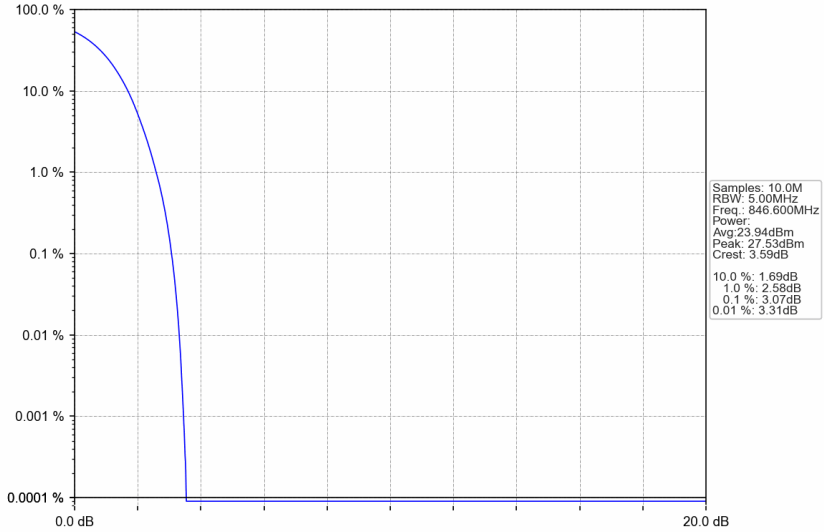
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



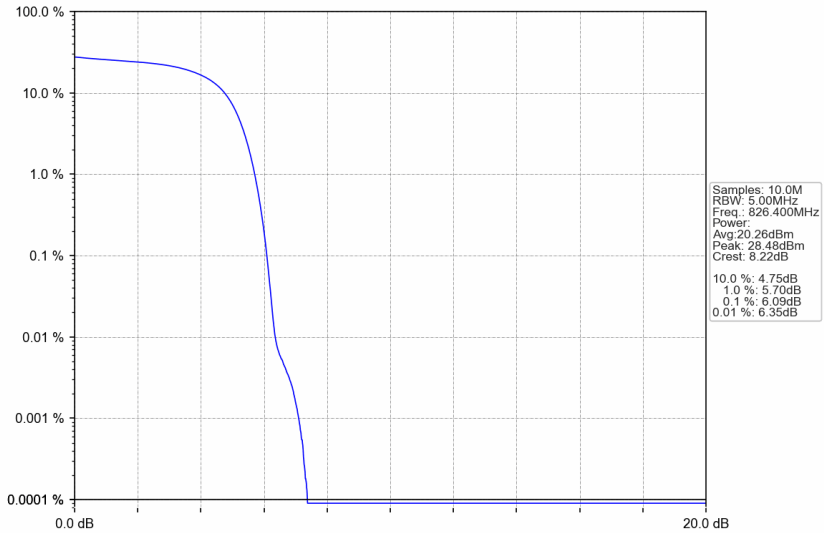
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



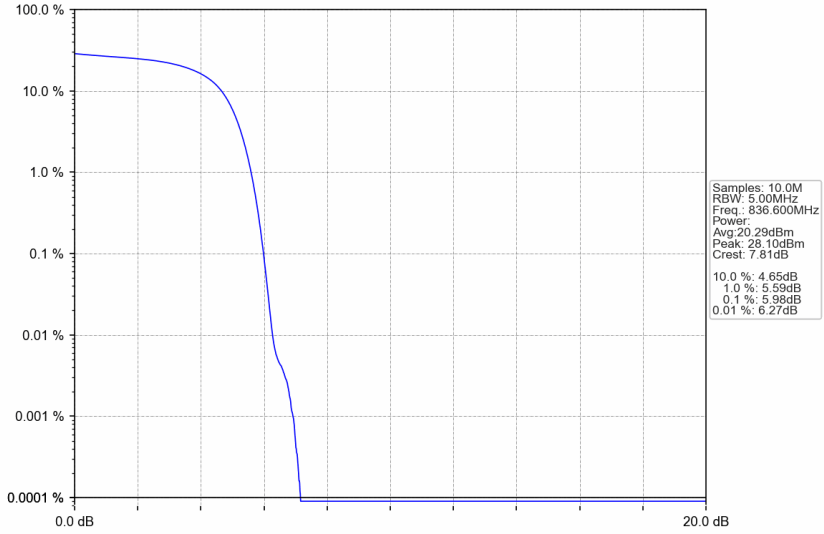
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



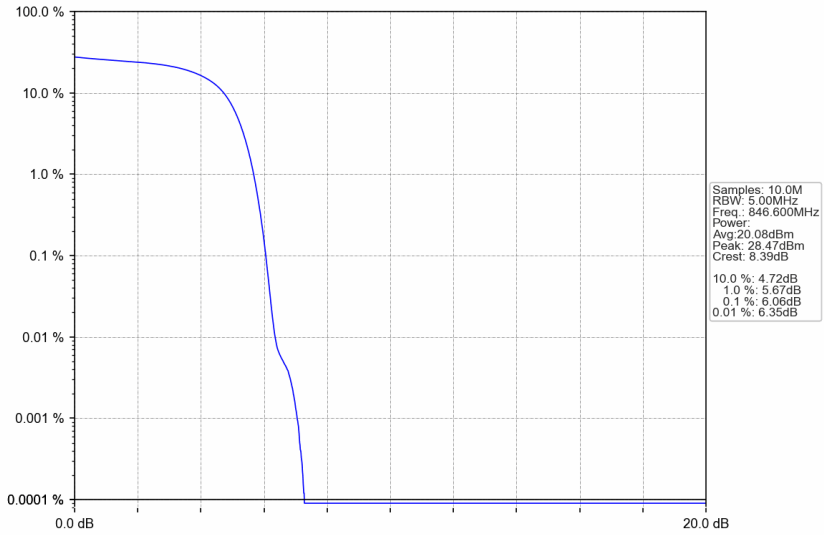
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



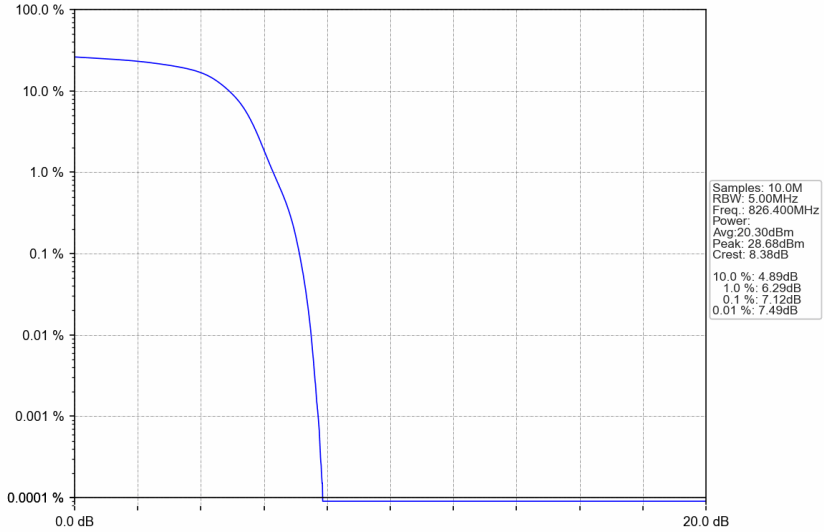
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



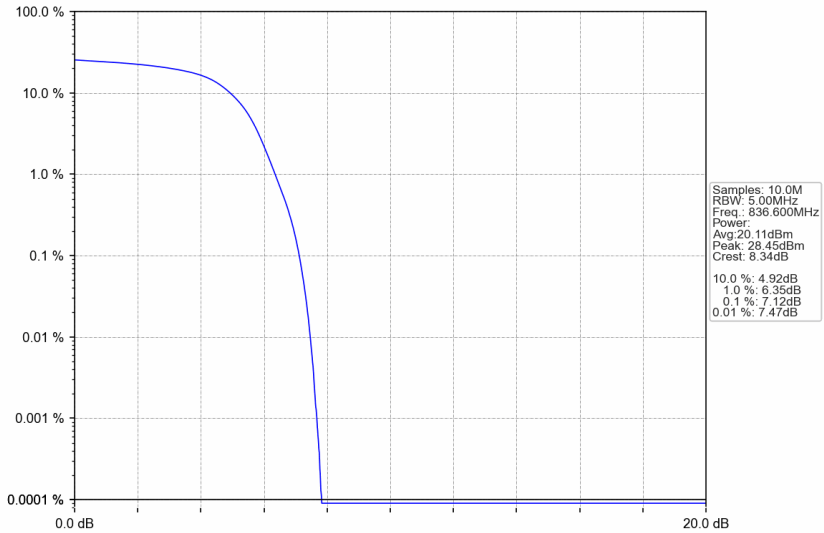
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



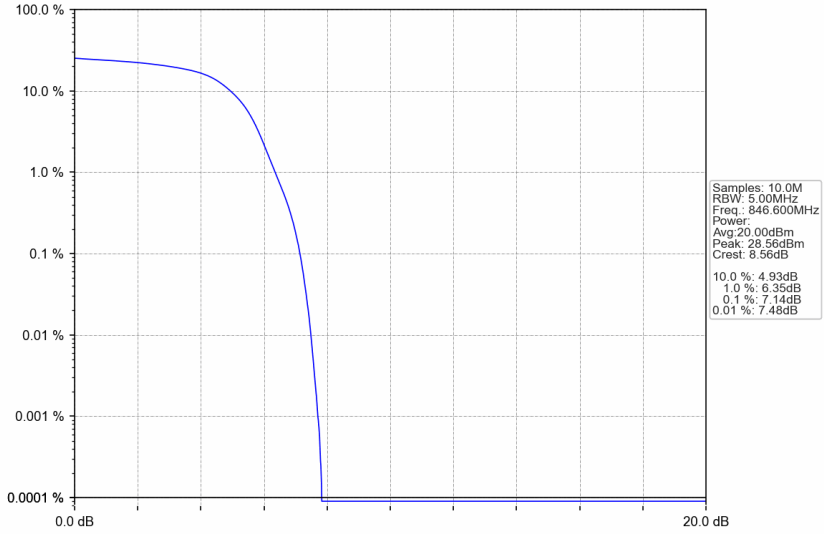
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



5. Spurious Emission

5.1 Test Result

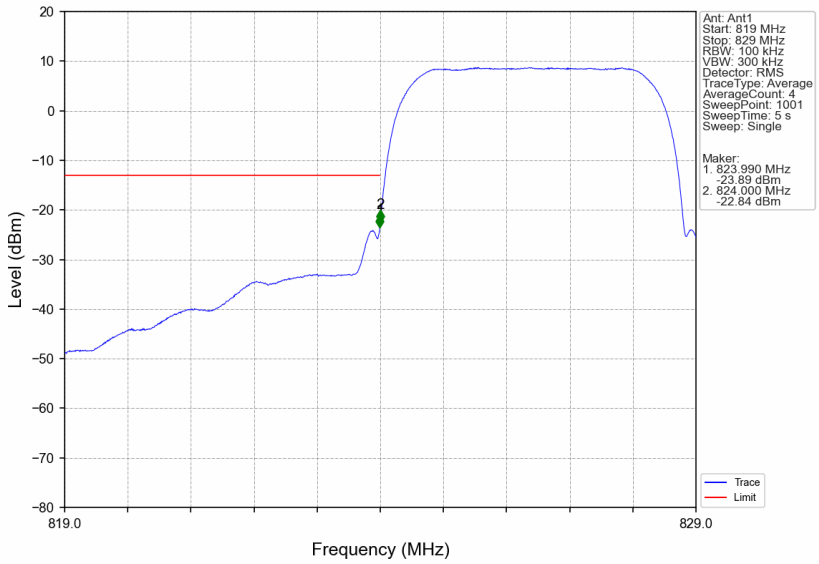
5.1.1 Band5

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

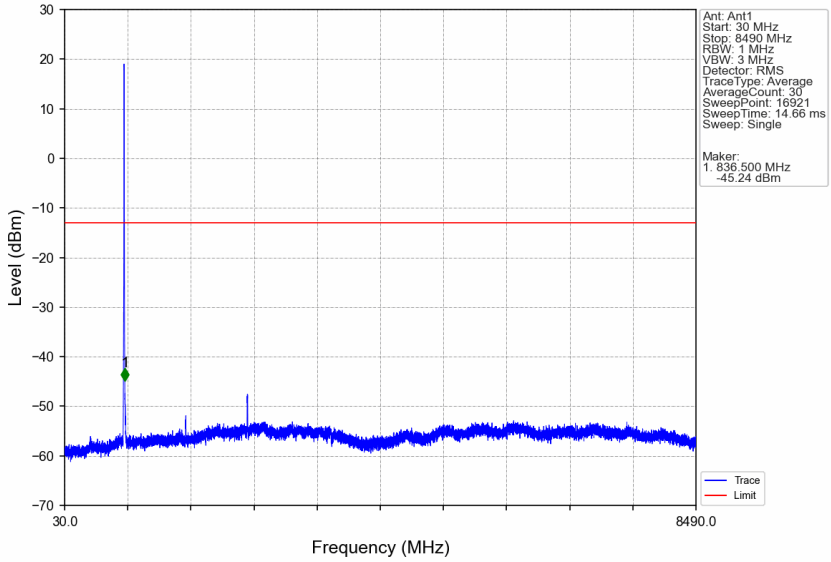
5.2 Test Graph

5.2.1 Band5

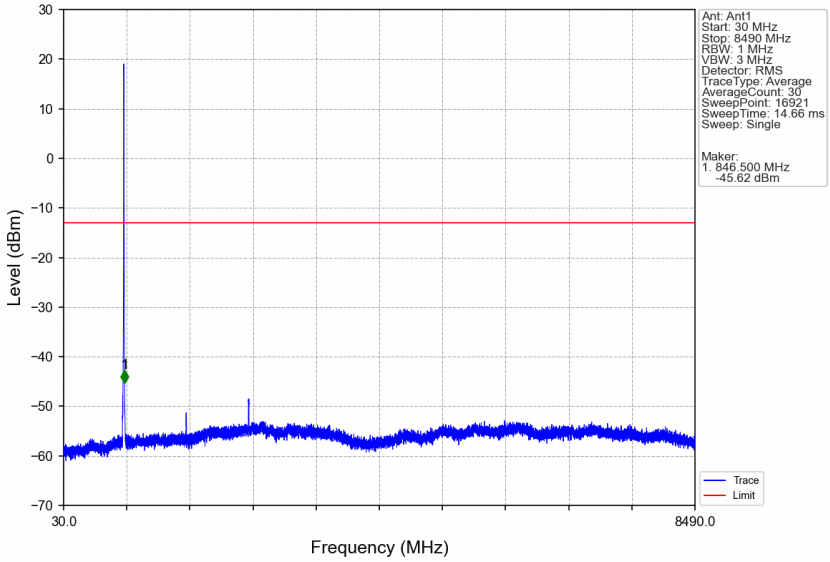
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



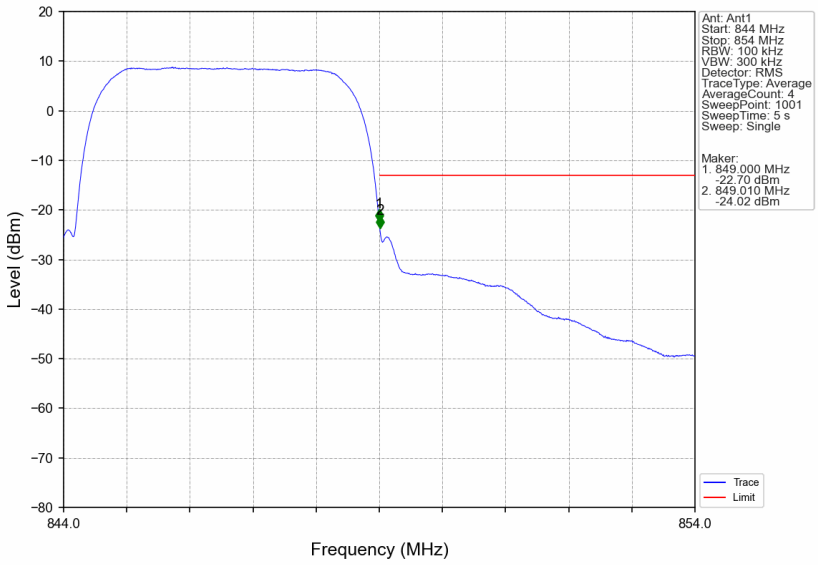
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



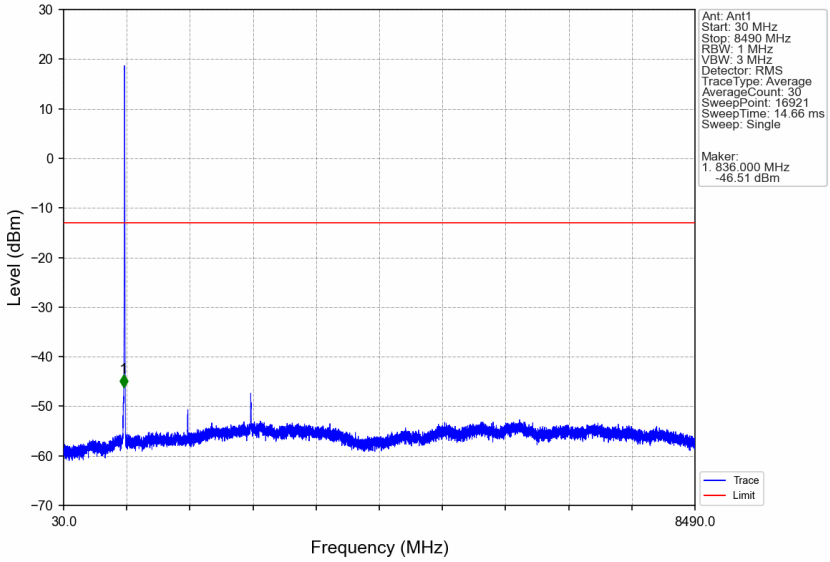
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



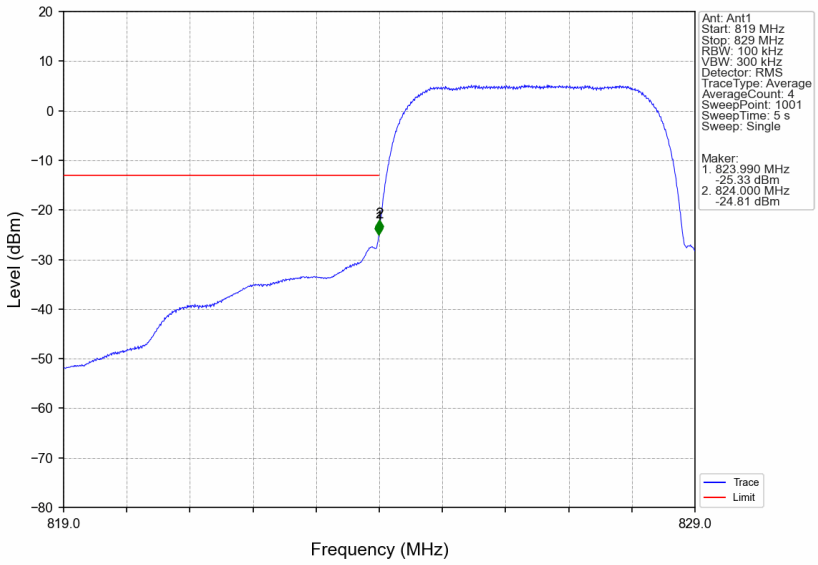
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



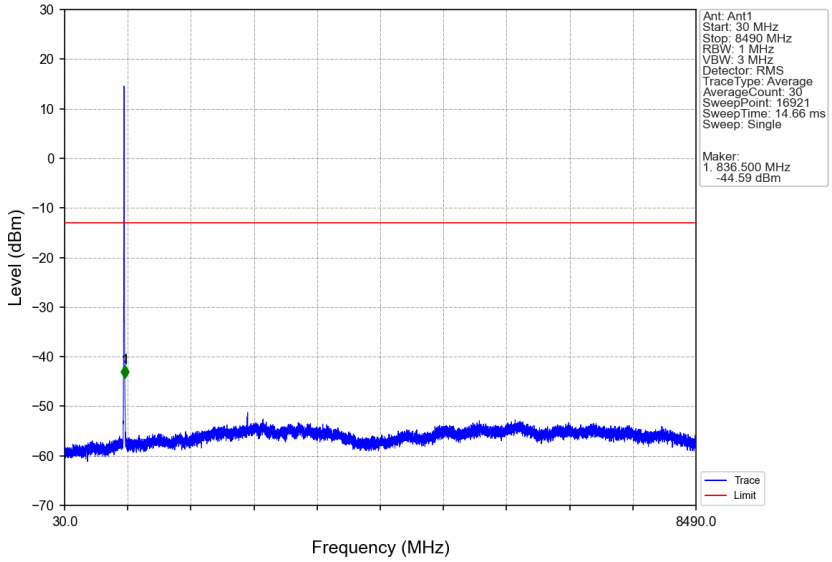
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



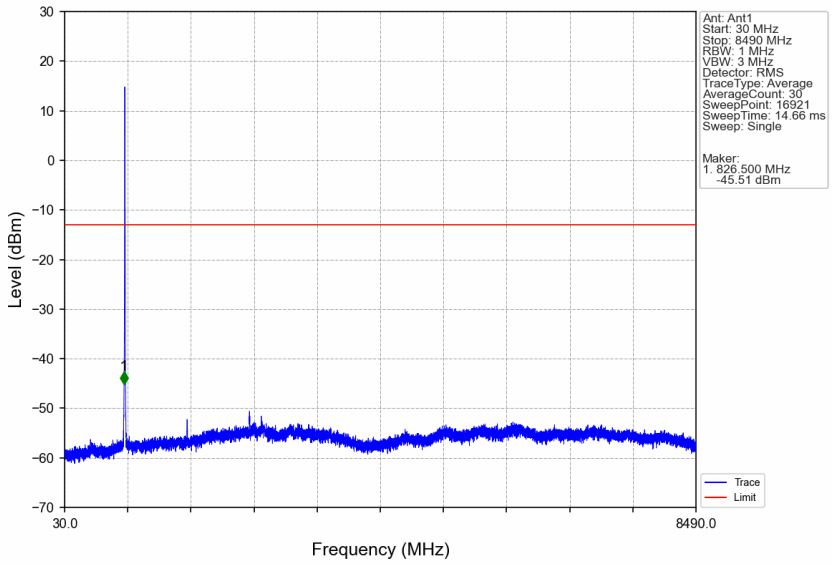
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



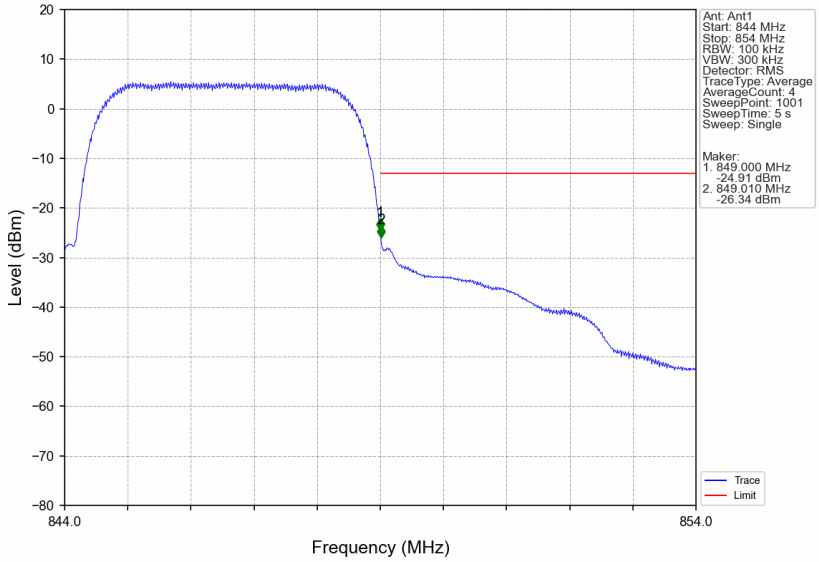
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



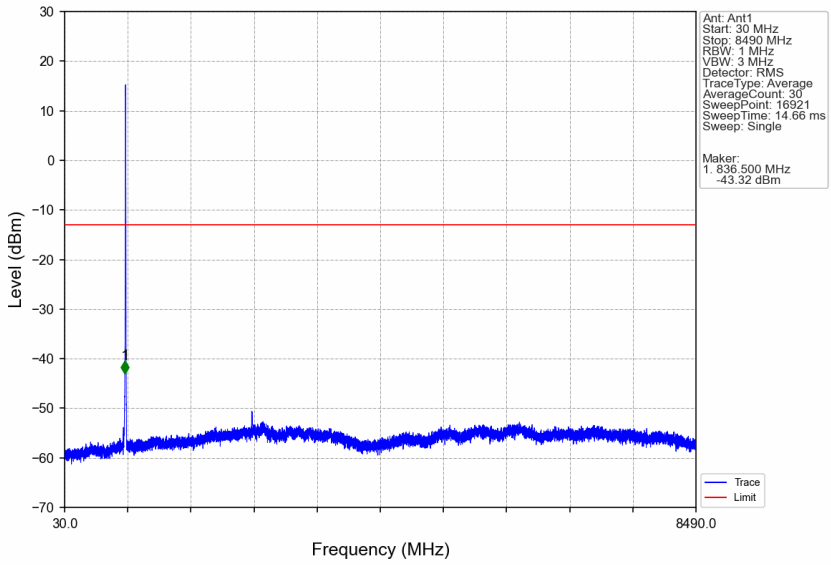
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



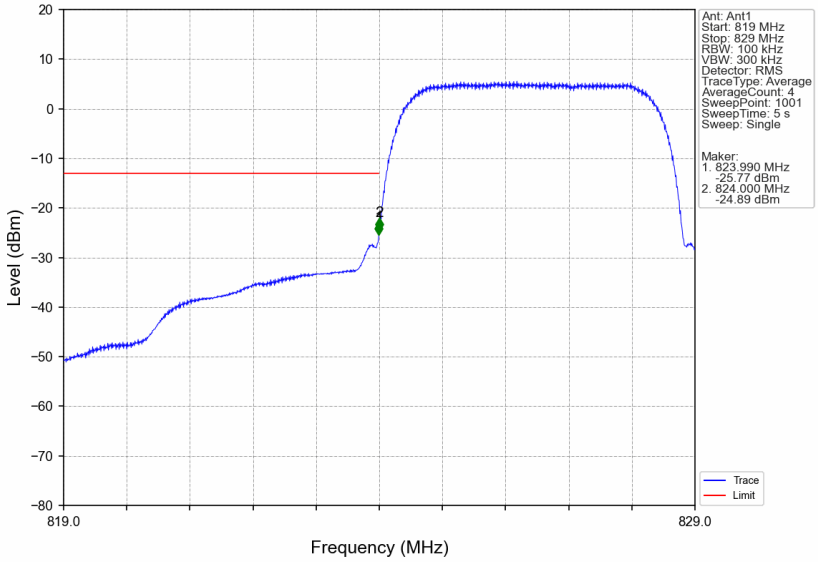
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



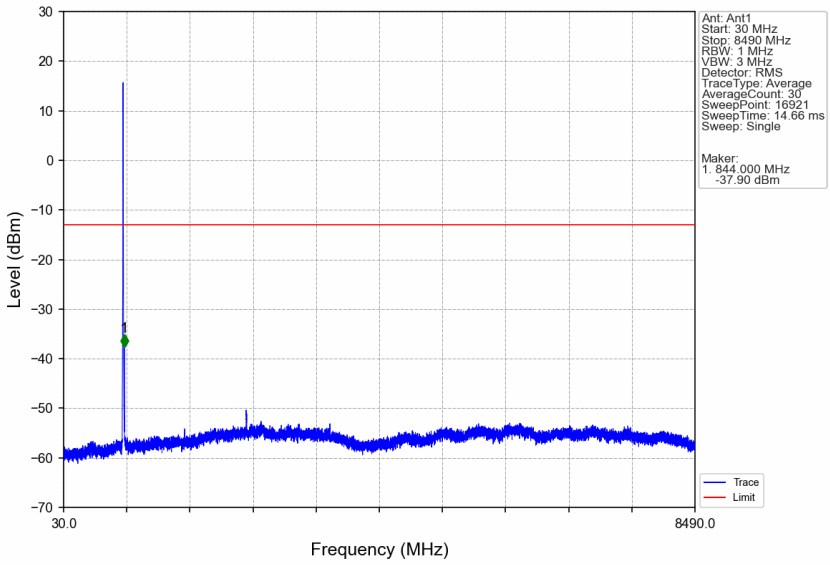
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



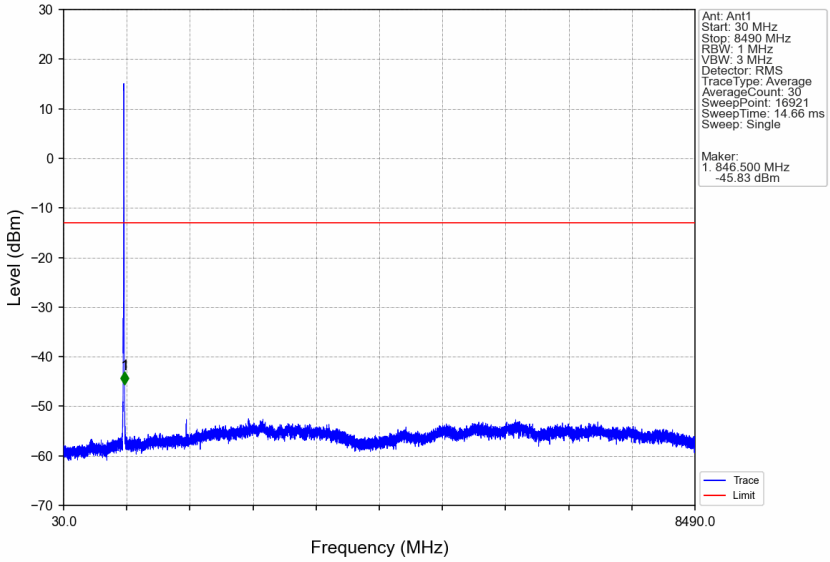
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



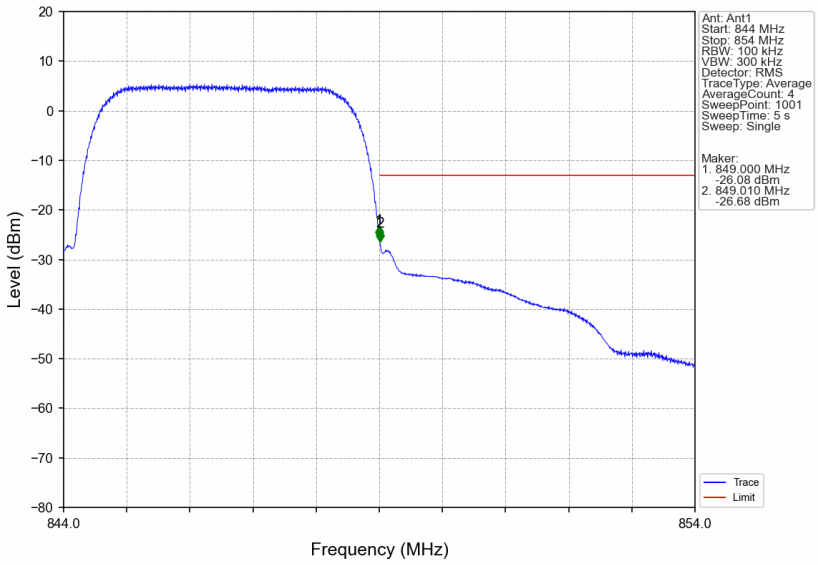
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



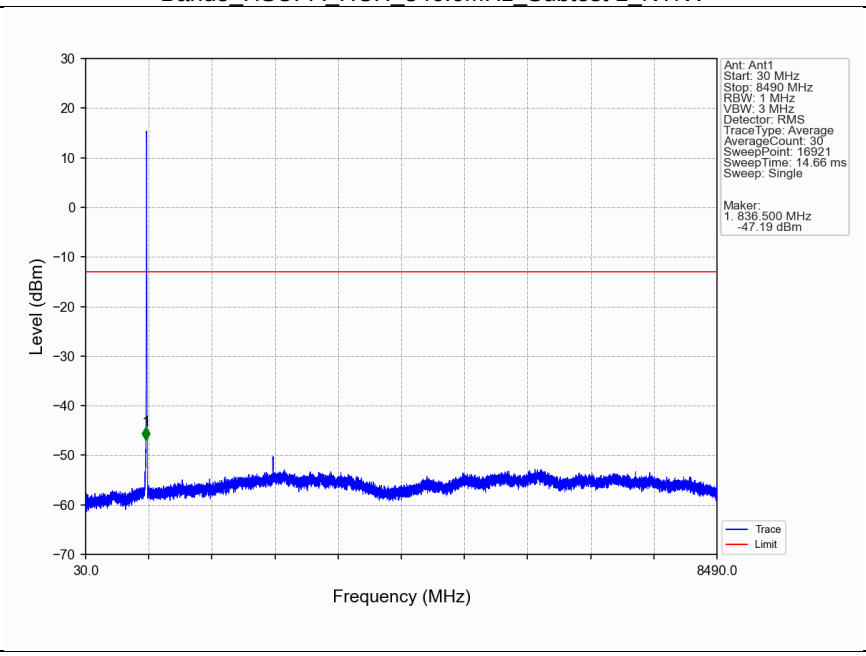
Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



6. Field Strength of Spurious Radiation

Test Band = WCDMA Band5_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.2857	47.55	-48.21	25.45	-70.47	-13.00	57.47	Horizontal
2	2201.7143	43.90	-47.68	26.60	-72.43	-13.00	59.43	Horizontal
3	2509.1429	43.72	-47.24	27.22	-71.56	-13.00	58.56	Horizontal
4	3503.4286	43.15	-46.53	28.61	-70.04	-13.00	57.04	Horizontal
5	4412	42.69	-45.86	30.39	-68.04	-13.00	55.04	Horizontal
6	5460	42.45	-45.07	32.23	-65.65	-13.00	52.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651.4286	48.32	-48.22	25.45	-69.71	-13.00	56.71	Vertical
2	2236	43.76	-47.62	26.67	-72.44	-13.00	59.44	Vertical
3	2770.8571	43.40	-46.96	27.69	-71.13	-13.00	58.13	Vertical
4	3309.1429	43.41	-46.67	28.41	-70.11	-13.00	57.11	Vertical
5	4544.5714	43.41	-45.68	30.67	-66.86	-13.00	53.86	Vertical
6	5448	42.58	-45.05	32.21	-65.53	-13.00	52.53	Vertical

Test Band = WCDMA Band5_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1763.4286	45.18	-48.03	25.56	-72.54	-13.00	59.54	Horizontal
2	2230.2857	44.21	-47.63	26.66	-72.01	-13.00	59.01	Horizontal
3	2971.4286	43.03	-46.53	28.05	-70.72	-13.00	57.72	Horizontal
4	3204.5714	43.16	-46.31	28.30	-70.10	-13.00	57.10	Horizontal
5	4553.1429	43.27	-45.70	30.69	-67.01	-13.00	54.01	Horizontal
6	6592.5714	41.72	-44.50	34.27	-63.78	-13.00	50.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.2857	46.65	-48.19	25.47	-71.33	-13.00	58.33	Vertical
2	2284	43.77	-47.53	26.77	-72.25	-13.00	59.25	Vertical
3	2711.4286	43.48	-47.04	27.58	-71.23	-13.00	58.23	Vertical
4	3212.5714	43.05	-46.34	28.31	-70.24	-13.00	57.24	Vertical
5	4585.7143	43.75	-45.76	30.74	-66.54	-13.00	53.54	Vertical
6	5492.5714	42.73	-45.13	32.29	-65.37	-13.00	52.37	Vertical

Test Band = WCDMA Band5_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.4286	50.10	-48.17	25.49	-67.84	-13.00	54.84	Horizontal
2	2705.7143	43.41	-47.04	27.57	-71.32	-13.00	58.32	Horizontal
3	3209.7143	42.99	-46.33	28.31	-70.29	-13.00	57.29	Horizontal
4	4085.7143	42.47	-45.94	29.61	-69.13	-13.00	56.13	Horizontal
5	6088.5714	42.62	-44.66	32.70	-64.60	-13.00	51.60	Horizontal
6	7591.4286	40.24	-42.97	36.53	-61.46	-13.00	48.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.4286	46.52	-48.17	25.49	-71.42	-13.00	58.42	Vertical
2	2458.8571	43.92	-47.34	27.12	-71.57	-13.00	58.57	Vertical
3	3248	43.07	-46.48	28.35	-70.32	-13.00	57.32	Vertical
4	3633.1429	42.57	-46.28	28.81	-70.15	-13.00	57.15	Vertical
5	5201.7143	42.72	-45.00	31.76	-65.77	-13.00	52.77	Vertical
6	6692	41.19	-44.09	34.45	-63.72	-13.00	50.72	Vertical