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	21.70	1.28	20.83	<=38.45	Pass
			836.6	21.58	1.28	20.71	<=38.45	Pass
			846.6	21.44	1.28	20.57	<=38.45	Pass
	HSDPA	Subtest 1	826.4	19.61	1.28	18.74	<=38.45	Pass
		Subtest 2	826.4	19.60	1.28	18.73	<=38.45	Pass
		Subtest 3	826.4	19.56	1.28	18.69	<=38.45	Pass
		Subtest 4	826.4	19.75	1.28	18.88	<=38.45	Pass
		Subtest 1	836.6	19.67	1.28	18.80	<=38.45	Pass
		Subtest 2	836.6	19.68	1.28	18.81	<=38.45	Pass
		Subtest 3	836.6	19.68	1.28	18.81	<=38.45	Pass
		Subtest 4	836.6	19.73	1.28	18.86	<=38.45	Pass
		Subtest 1	846.6	19.41	1.28	18.54	<=38.45	Pass
		Subtest 2	846.6	19.36	1.28	18.49	<=38.45	Pass
		Subtest 3	846.6	19.17	1.28	18.30	<=38.45	Pass
		Subtest 4	846.6	19.45	1.28	18.58	<=38.45	Pass
	HSUPA	Subtest 1	826.4	17.55	1.28	16.68	<=38.45	Pass
		Subtest 2	826.4	17.73	1.28	16.86	<=38.45	Pass
		Subtest 3	826.4	17.76	1.28	16.89	<=38.45	Pass
		Subtest 4	826.4	17.98	1.28	17.11	<=38.45	Pass
		Subtest 5	826.4	17.48	1.28	16.61	<=38.45	Pass
		Subtest 1	836.6	17.66	1.28	16.79	<=38.45	Pass
		Subtest 2	836.6	17.72	1.28	16.85	<=38.45	Pass
		Subtest 3	836.6	17.89	1.28	17.02	<=38.45	Pass
		Subtest 4	836.6	17.43	1.28	16.56	<=38.45	Pass
		Subtest 5	836.6	17.47	1.28	16.60	<=38.45	Pass
		Subtest 1	846.6	17.07	1.28	16.20	<=38.45	Pass
		Subtest 2	846.6	17.27	1.28	16.40	<=38.45	Pass
		Subtest 3	846.6	17.27	1.28	16.40	<=38.45	Pass
		Subtest 4	846.6	17.27	1.28	16.40	<=38.45	Pass
		Subtest 5	846.6	17.69	1.28	16.82	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Band5

2.1.1 Test Result

Band: 5						
Network	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. Rated (ppm)	Verdict

	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	
RMC	826.4	20	3.27	4.435	0.0054	-2.5 to 2.5	Pass
			3.85	4.621	0.0056	-2.5 to 2.5	Pass
			4.43	4.513	0.0055	-2.5 to 2.5	Pass
		-30	3.85	4.320	0.0052	-2.5 to 2.5	Pass
		-20	3.85	4.241	0.0051	-2.5 to 2.5	Pass
		-10	3.85	3.948	0.0048	-2.5 to 2.5	Pass
		0	3.85	3.955	0.0048	-2.5 to 2.5	Pass
		10	3.85	4.027	0.0049	-2.5 to 2.5	Pass
		30	3.85	4.156	0.0050	-2.5 to 2.5	Pass
		40	3.85	3.934	0.0048	-2.5 to 2.5	Pass
		50	3.85	4.106	0.0050	-2.5 to 2.5	Pass
	836.6	20	3.27	-1.216	-0.0015	-2.5 to 2.5	Pass
			3.85	-0.615	-0.0007	-2.5 to 2.5	Pass
			4.43	-0.551	-0.0007	-2.5 to 2.5	Pass
		-30	3.85	-0.608	-0.0007	-2.5 to 2.5	Pass
		-20	3.85	-0.722	-0.0009	-2.5 to 2.5	Pass
		-10	3.85	-0.651	-0.0008	-2.5 to 2.5	Pass
		0	3.85	-0.494	-0.0006	-2.5 to 2.5	Pass
		10	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
		30	3.85	-0.494	-0.0006	-2.5 to 2.5	Pass
		40	3.85	-0.715	-0.0009	-2.5 to 2.5	Pass
		50	3.85	-0.157	-0.0002	-2.5 to 2.5	Pass
	846.6	20	3.27	-4.935	-0.0058	-2.5 to 2.5	Pass
			3.85	-4.942	-0.0058	-2.5 to 2.5	Pass
			4.43	-5.057	-0.0060	-2.5 to 2.5	Pass
		-30	3.85	-5.271	-0.0062	-2.5 to 2.5	Pass
		-20	3.85	-5.307	-0.0063	-2.5 to 2.5	Pass
		-10	3.85	-4.764	-0.0056	-2.5 to 2.5	Pass
		0	3.85	-4.921	-0.0058	-2.5 to 2.5	Pass
		10	3.85	-5.636	-0.0067	-2.5 to 2.5	Pass
		30	3.85	-5.937	-0.0070	-2.5 to 2.5	Pass
		40	3.85	-5.472	-0.0065	-2.5 to 2.5	Pass
		50	3.85	-5.486	-0.0065	-2.5 to 2.5	Pass
HSDPA	826.4	20	3.27	4.320	0.0052	-2.5 to 2.5	Pass
			3.85	4.070	0.0049	-2.5 to 2.5	Pass
			4.43	3.991	0.0048	-2.5 to 2.5	Pass
		-30	3.85	4.406	0.0053	-2.5 to 2.5	Pass
		-20	3.85	4.327	0.0052	-2.5 to 2.5	Pass
		-10	3.85	4.649	0.0056	-2.5 to 2.5	Pass
		0	3.85	4.492	0.0054	-2.5 to 2.5	Pass
		10	3.85	4.435	0.0054	-2.5 to 2.5	Pass
		30	3.85	4.163	0.0050	-2.5 to 2.5	Pass
		40	3.85	4.885	0.0059	-2.5 to 2.5	Pass
		50	3.85	4.456	0.0054	-2.5 to 2.5	Pass
	836.6	20	3.27	-1.309	-0.0016	-2.5 to 2.5	Pass
			3.85	-0.794	-0.0009	-2.5 to 2.5	Pass
			4.43	-1.438	-0.0017	-2.5 to 2.5	Pass
		-30	3.85	-0.873	-0.0010	-2.5 to 2.5	Pass
		-20	3.85	-1.388	-0.0017	-2.5 to 2.5	Pass
		-10	3.85	-1.094	-0.0013	-2.5 to 2.5	Pass
		0	3.85	-1.216	-0.0015	-2.5 to 2.5	Pass
		10	3.85	-1.266	-0.0015	-2.5 to 2.5	Pass
		30	3.85	-0.672	-0.0008	-2.5 to 2.5	Pass
		40	3.85	-1.080	-0.0013	-2.5 to 2.5	Pass
		50	3.85	-0.880	-0.0011	-2.5 to 2.5	Pass
	846.6	20	3.27	-6.144	-0.0073	-2.5 to 2.5	Pass
			3.85	-6.344	-0.0075	-2.5 to 2.5	Pass
			4.43	-6.015	-0.0071	-2.5 to 2.5	Pass
		-30	3.85	-6.251	-0.0074	-2.5 to 2.5	Pass
		-20	3.85	-6.123	-0.0072	-2.5 to 2.5	Pass

		-10	3.85	-6.015	-0.0071	-2.5 to 2.5	Pass
		0	3.85	-5.872	-0.0069	-2.5 to 2.5	Pass
		10	3.85	-6.208	-0.0073	-2.5 to 2.5	Pass
		30	3.85	-6.251	-0.0074	-2.5 to 2.5	Pass
		40	3.85	-5.815	-0.0069	-2.5 to 2.5	Pass
		50	3.85	-6.444	-0.0076	-2.5 to 2.5	Pass
HSUPA	826.4	20	3.27	4.227	0.0051	-2.5 to 2.5	Pass
			3.85	4.556	0.0055	-2.5 to 2.5	Pass
			4.43	3.619	0.0044	-2.5 to 2.5	Pass
		-30	3.85	4.356	0.0053	-2.5 to 2.5	Pass
		-20	3.85	3.834	0.0046	-2.5 to 2.5	Pass
		-10	3.85	4.227	0.0051	-2.5 to 2.5	Pass
		0	3.85	4.120	0.0050	-2.5 to 2.5	Pass
		10	3.85	4.241	0.0051	-2.5 to 2.5	Pass
		30	3.85	3.619	0.0044	-2.5 to 2.5	Pass
		40	3.85	4.027	0.0049	-2.5 to 2.5	Pass
		50	3.85	4.256	0.0052	-2.5 to 2.5	Pass
	836.6	20	3.27	-0.823	-0.0010	-2.5 to 2.5	Pass
			3.85	-0.436	-0.0005	-2.5 to 2.5	Pass
			4.43	-0.637	-0.0008	-2.5 to 2.5	Pass
		-30	3.85	-0.422	-0.0005	-2.5 to 2.5	Pass
		-20	3.85	-0.765	-0.0009	-2.5 to 2.5	Pass
		-10	3.85	-0.658	-0.0008	-2.5 to 2.5	Pass
		0	3.85	-0.823	-0.0010	-2.5 to 2.5	Pass
		10	3.85	-0.894	-0.0011	-2.5 to 2.5	Pass
		30	3.85	-0.358	-0.0004	-2.5 to 2.5	Pass
		40	3.85	-0.772	-0.0009	-2.5 to 2.5	Pass
		50	3.85	-0.401	-0.0005	-2.5 to 2.5	Pass
	846.6	20	3.27	-5.679	-0.0067	-2.5 to 2.5	Pass
			3.85	-5.429	-0.0064	-2.5 to 2.5	Pass
			4.43	-4.971	-0.0059	-2.5 to 2.5	Pass
		-30	3.85	-5.021	-0.0059	-2.5 to 2.5	Pass
		-20	3.85	-5.422	-0.0064	-2.5 to 2.5	Pass
		-10	3.85	-5.293	-0.0063	-2.5 to 2.5	Pass
		0	3.85	-5.457	-0.0064	-2.5 to 2.5	Pass
		10	3.85	-5.071	-0.0060	-2.5 to 2.5	Pass
		30	3.85	-5.286	-0.0062	-2.5 to 2.5	Pass
		40	3.85	-5.243	-0.0062	-2.5 to 2.5	Pass
		50	3.85	-5.128	-0.0061	-2.5 to 2.5	Pass

3. Modulation Characteristics

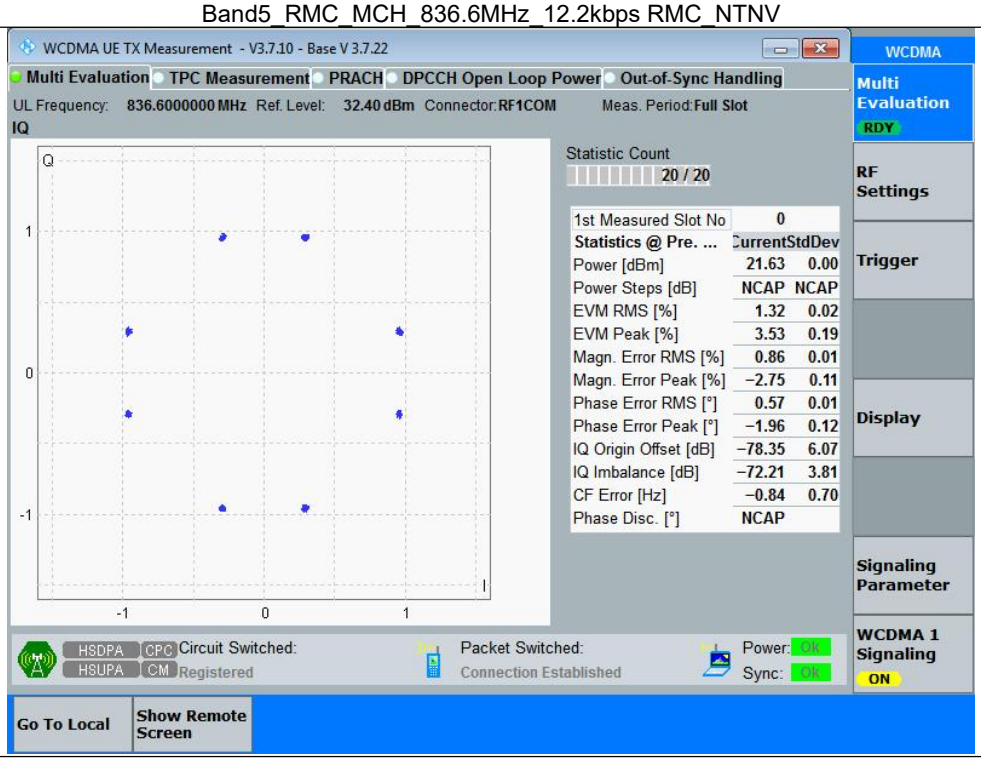
3.1 Band5

3.1.1 Test Result

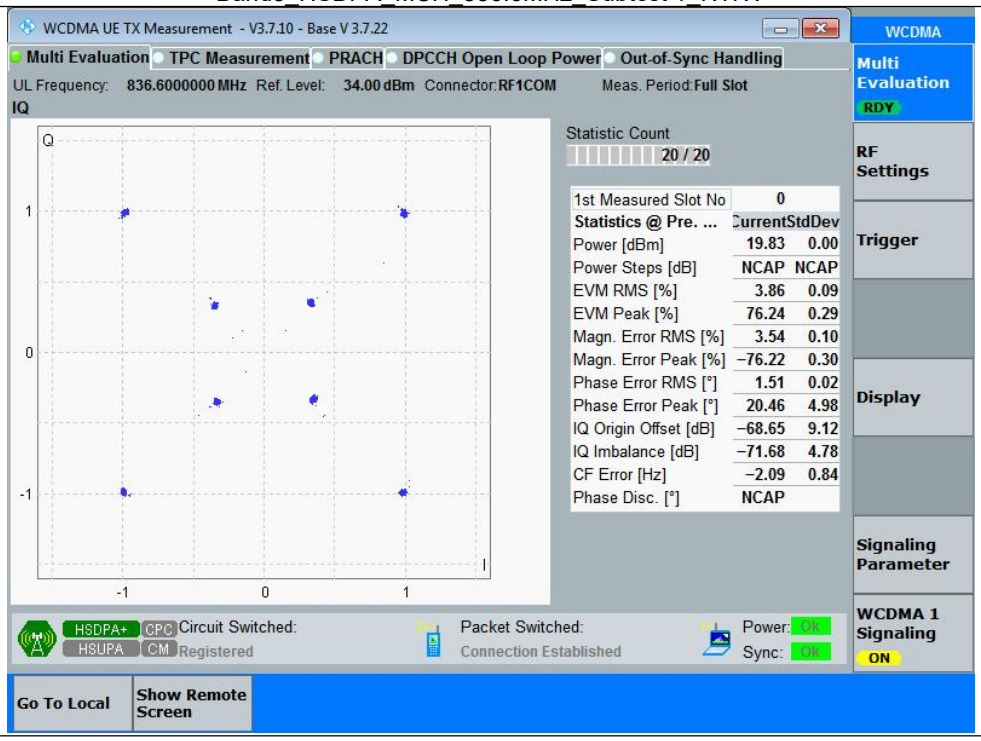
Band: 5						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	836.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	836.6	Refer To Test Graph		Pass
	HSUPA	Subtest 1	836.6	Refer To Test Graph		Pass

3.1.2 Test Graph

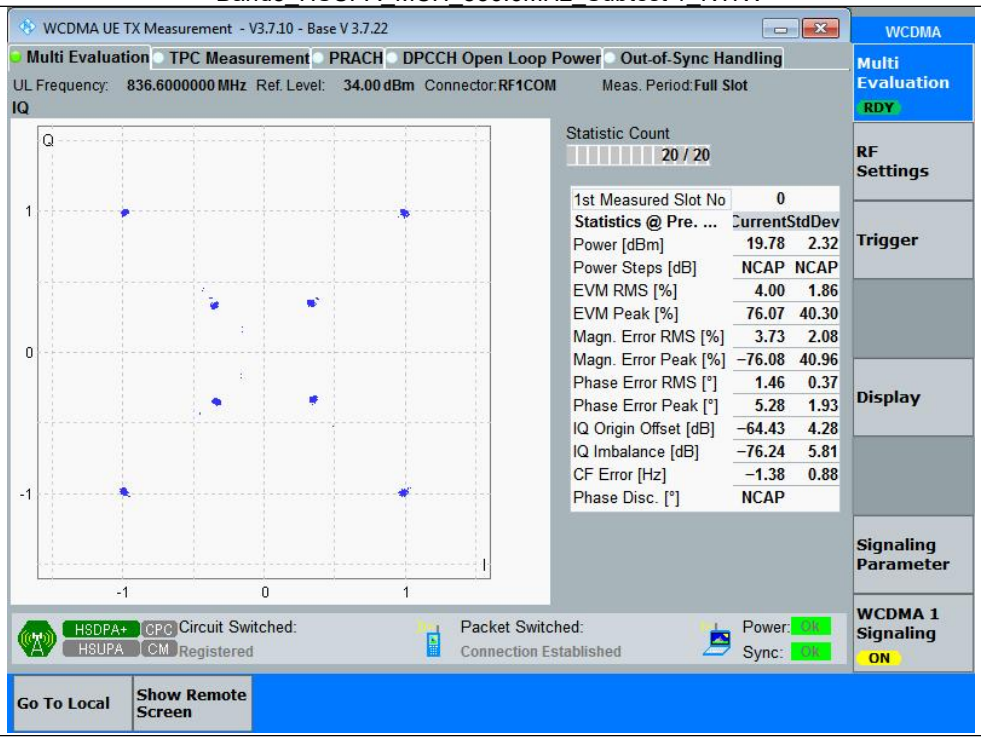
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



4. 99% & 26dB Bandwidth

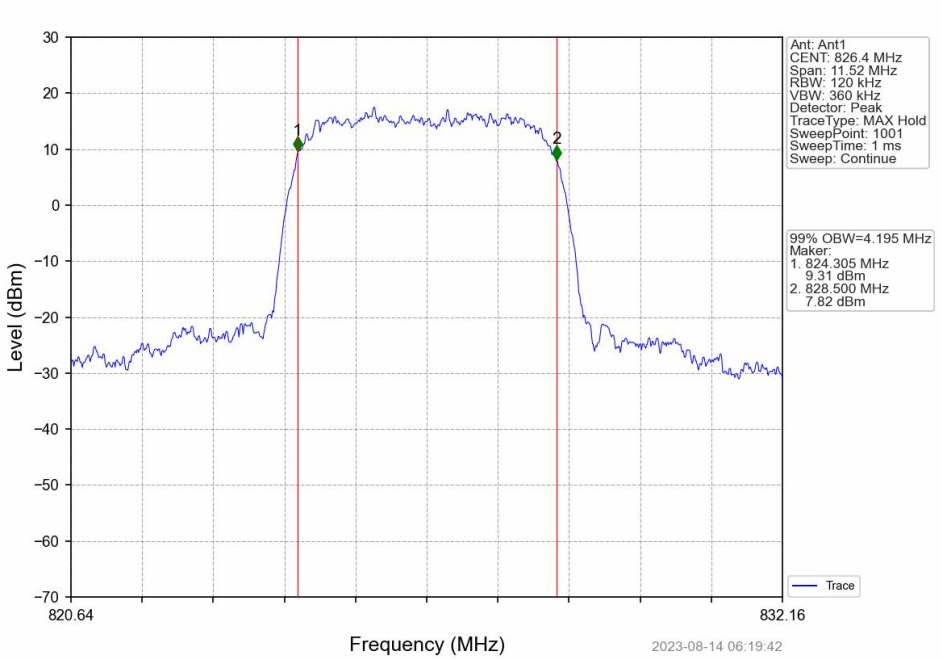
4.1 Band5_OBW

4.1.1 Test Result

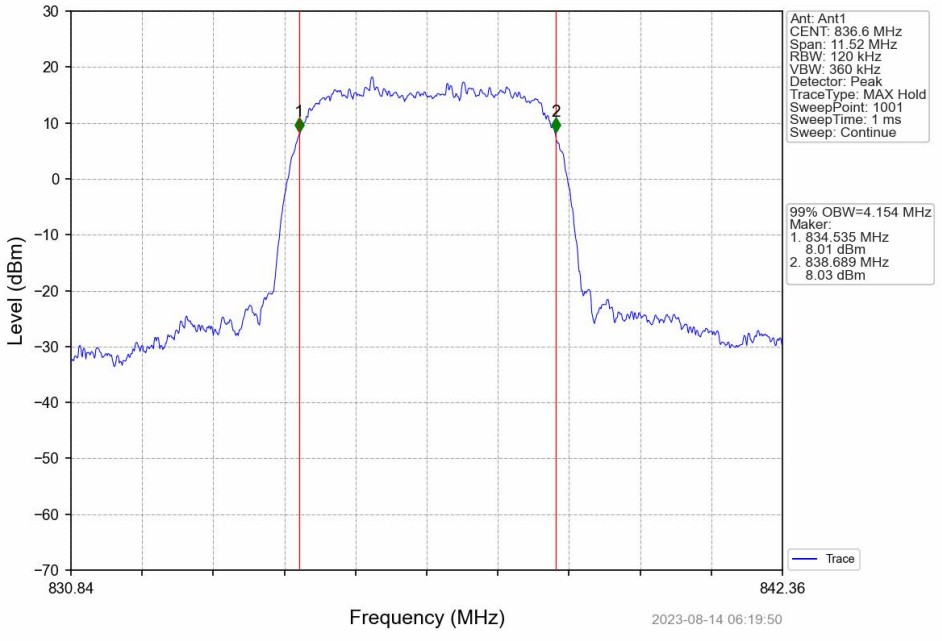
Band: 5					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.195	Pass
			836.6	4.154	Pass
			846.6	4.161	Pass
	HSDPA	Subtest 1	826.4	4.179	Pass
			836.6	4.159	Pass
			846.6	4.172	Pass
	HSUPA	Subtest 1	826.4	4.154	Pass
			836.6	4.175	Pass
			846.6	4.155	Pass

4.1.2 Test Graph

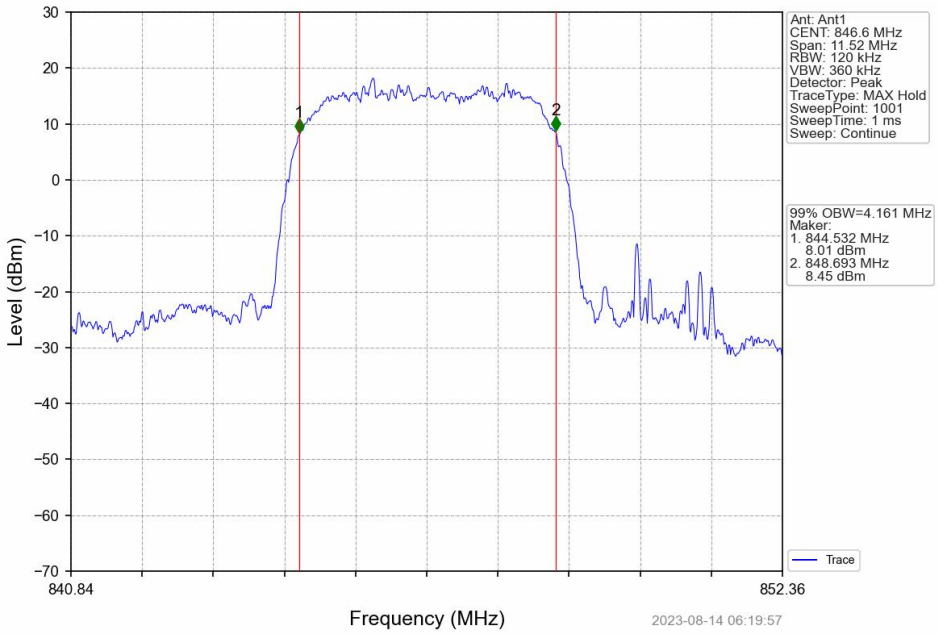
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



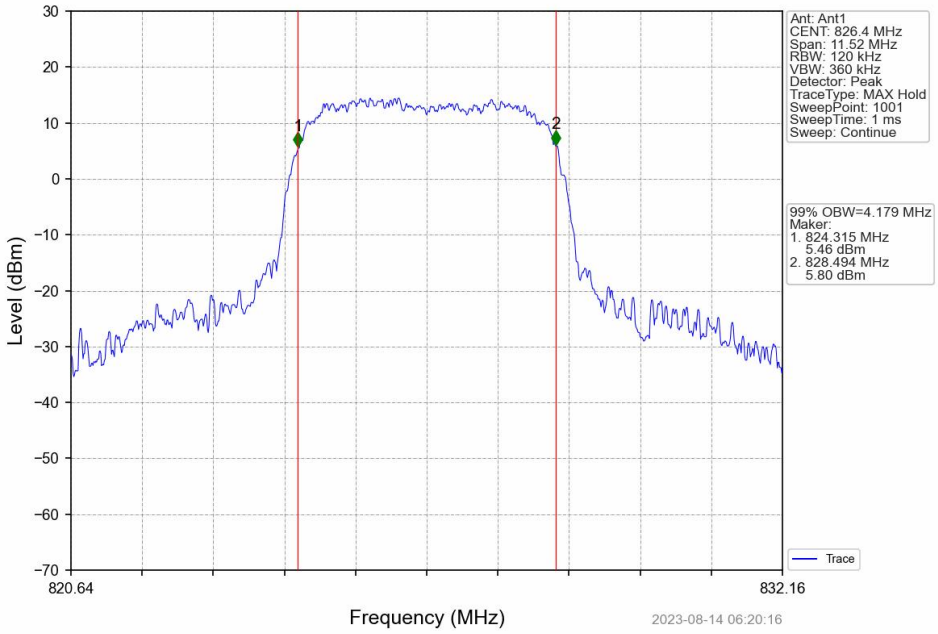
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



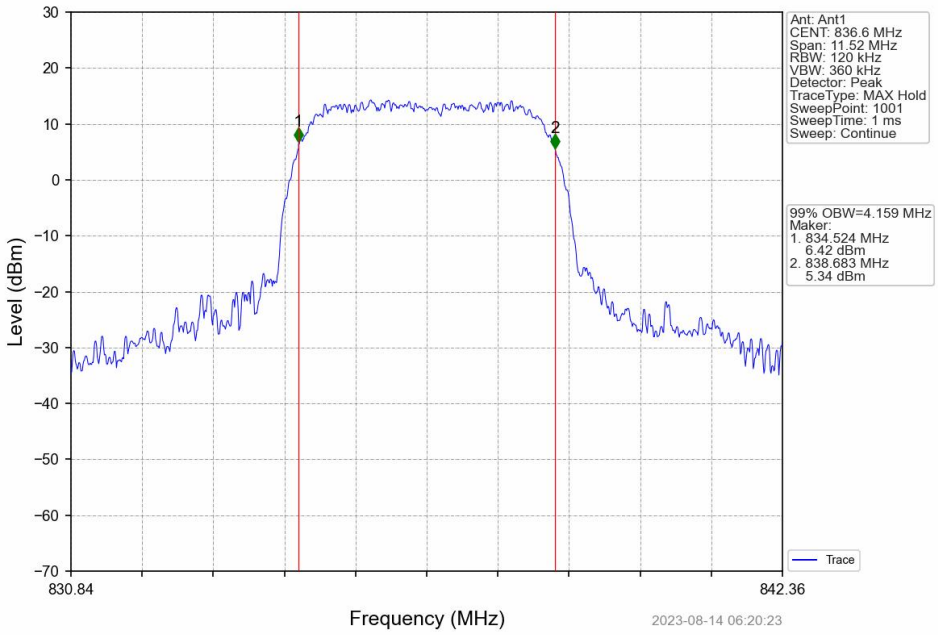
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



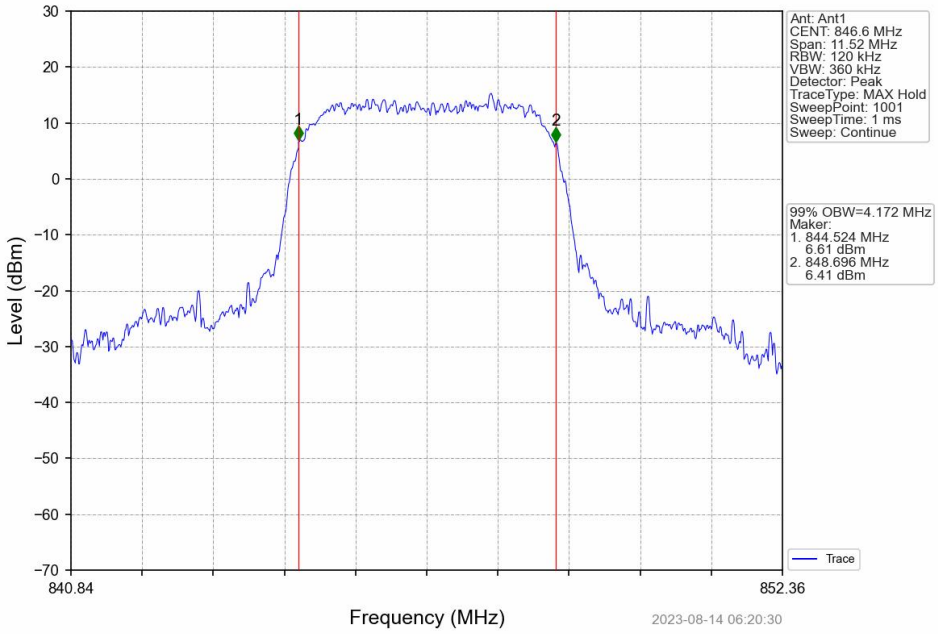
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



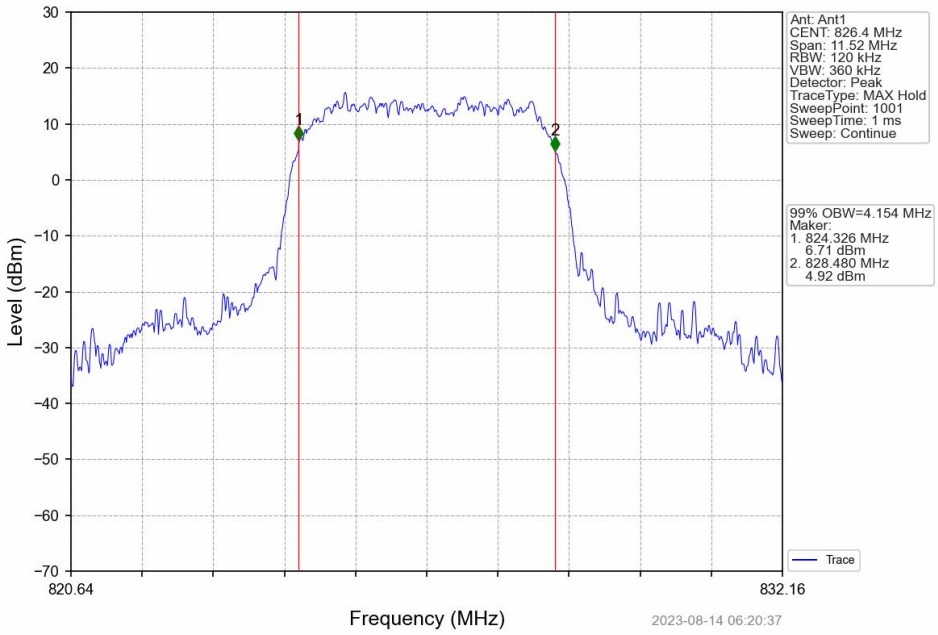
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



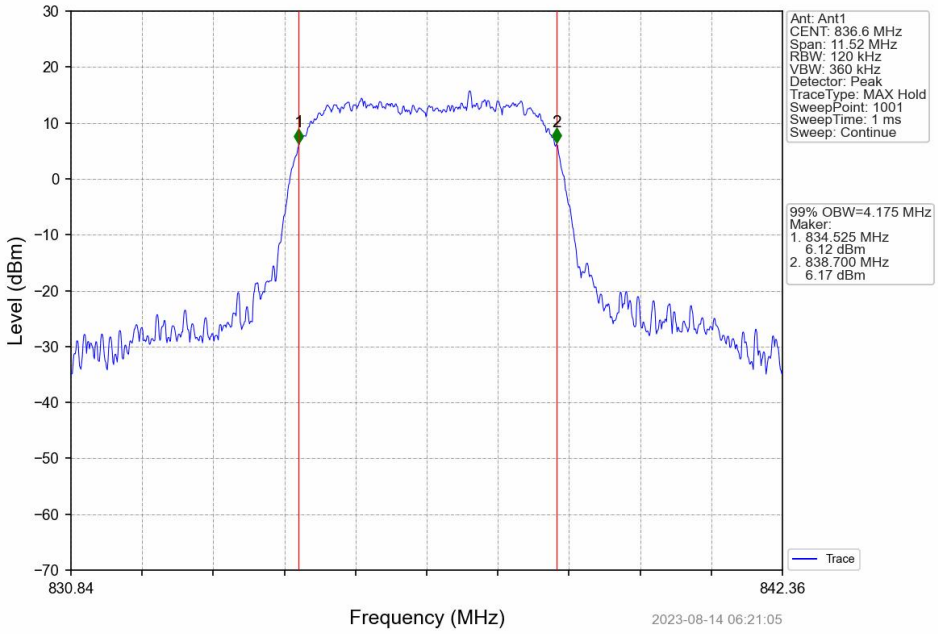
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



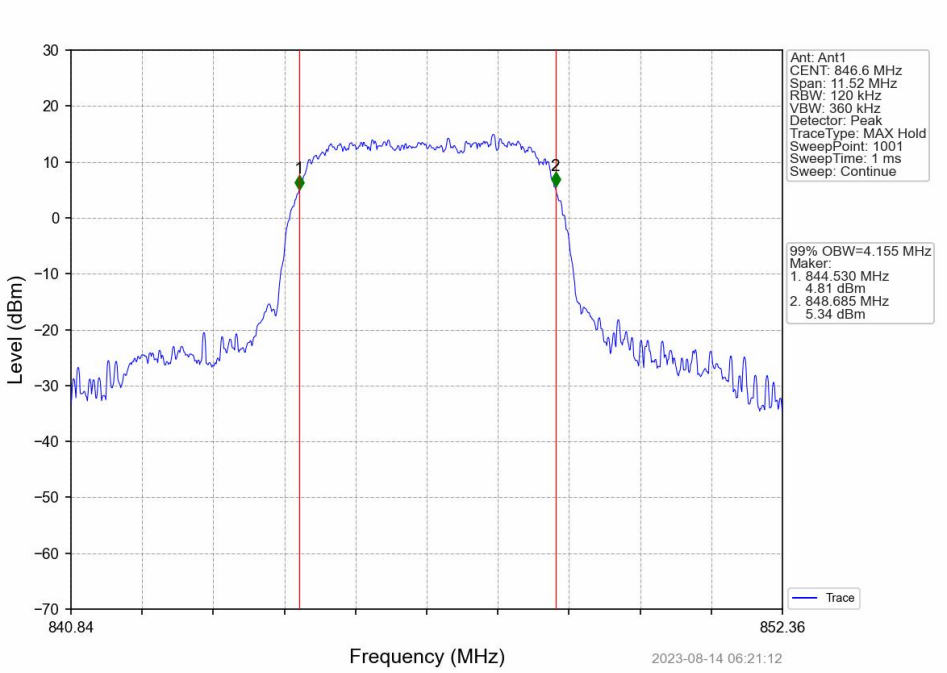
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



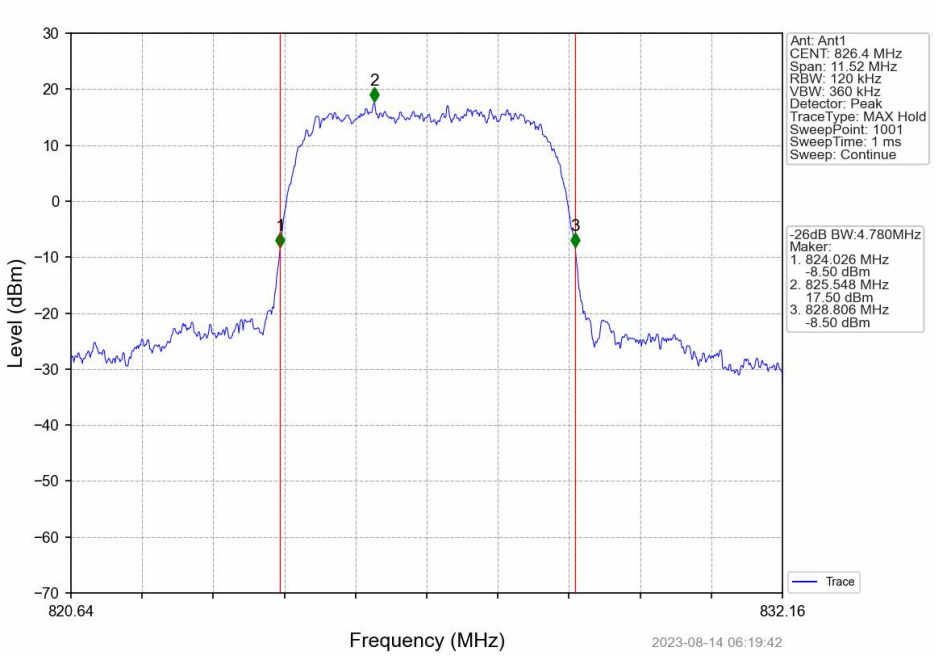
4.2 Band5_XDB

4.2.1 Test Result

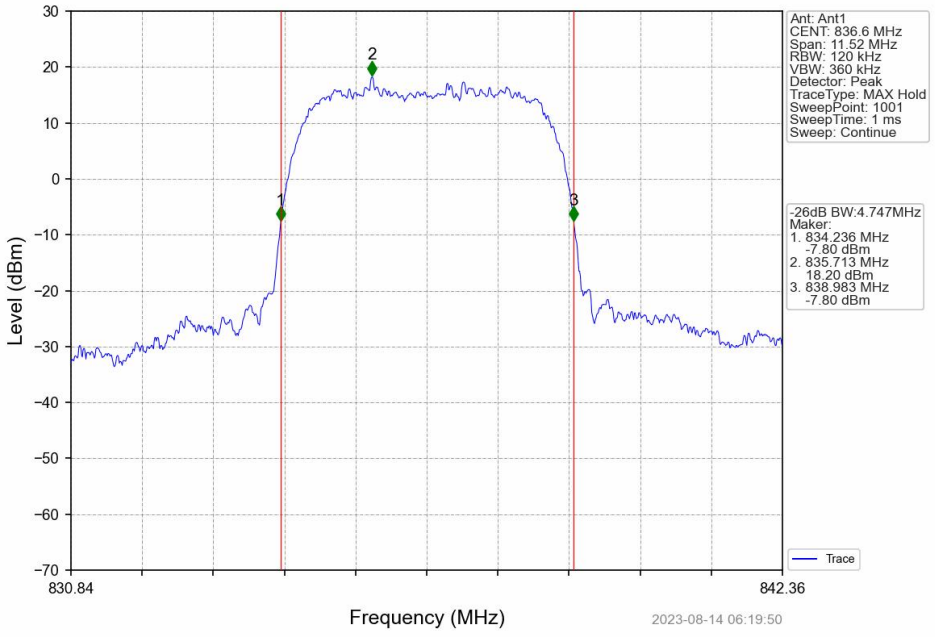
Band: 5					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	RMC	12.2kbps RMC	826.4	4.780	Pass
			836.6	4.747	Pass
			846.6	4.747	Pass
	HSDPA	Subtest 1	826.4	4.779	Pass
			836.6	4.785	Pass
			846.6	4.748	Pass
	HSUPA	Subtest 1	826.4	4.729	Pass
			836.6	4.739	Pass
			846.6	4.765	Pass

4.2.2 Test Graph

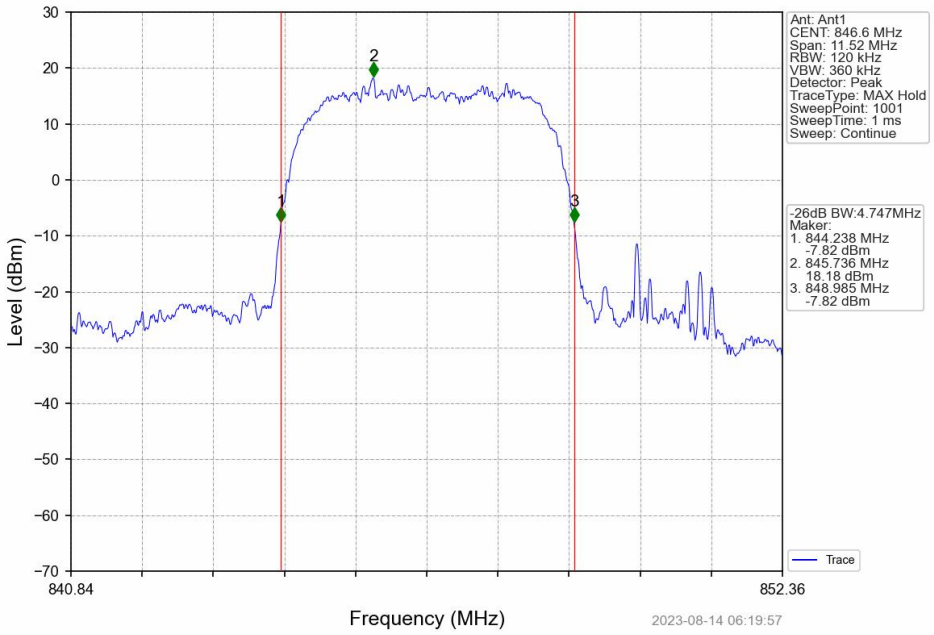
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



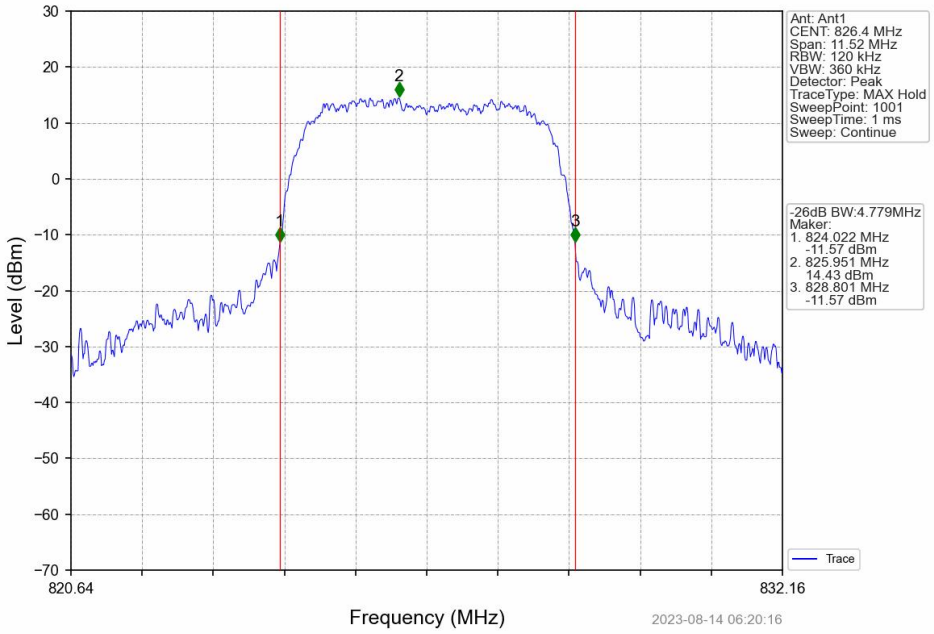
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV

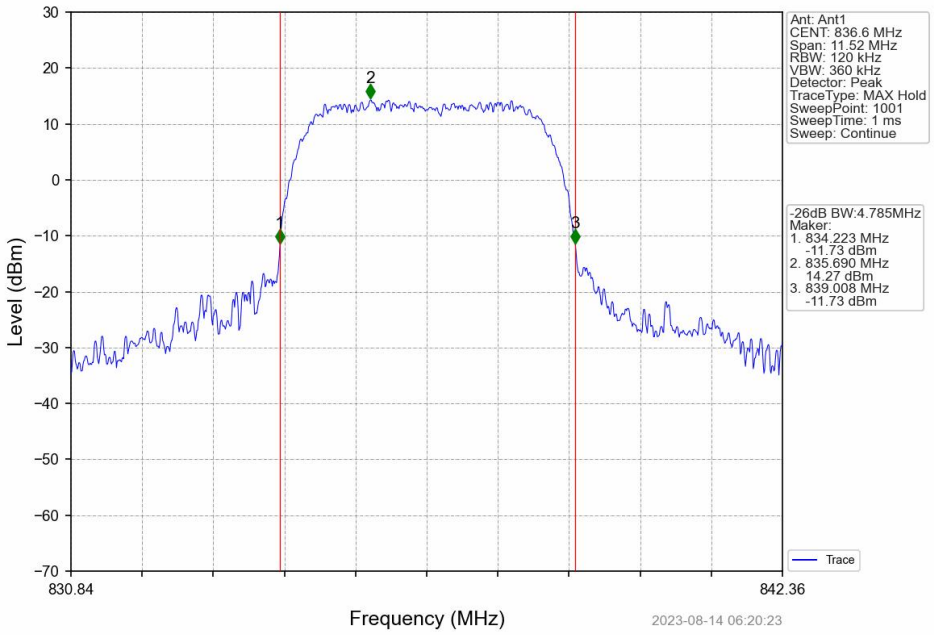


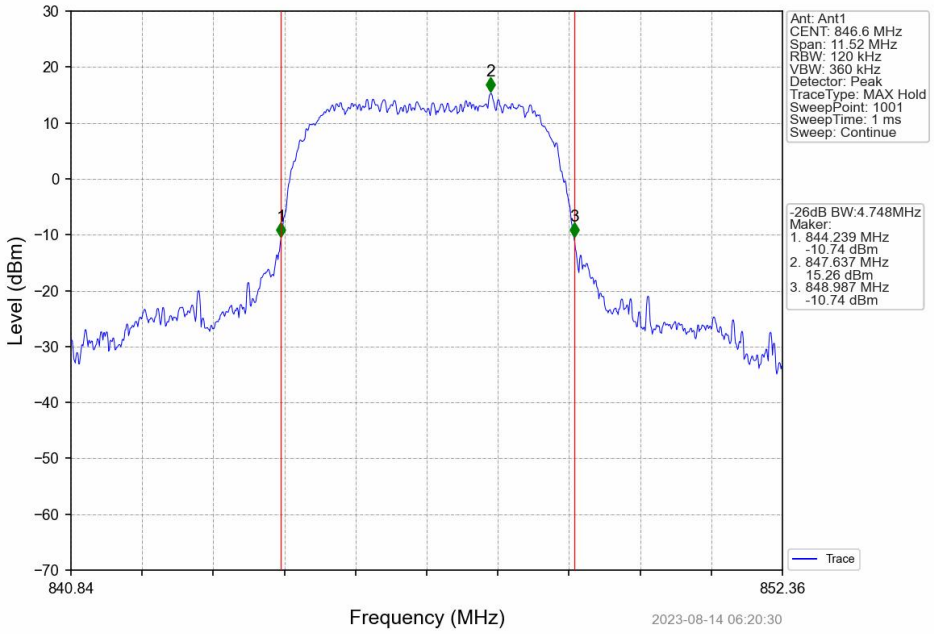
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



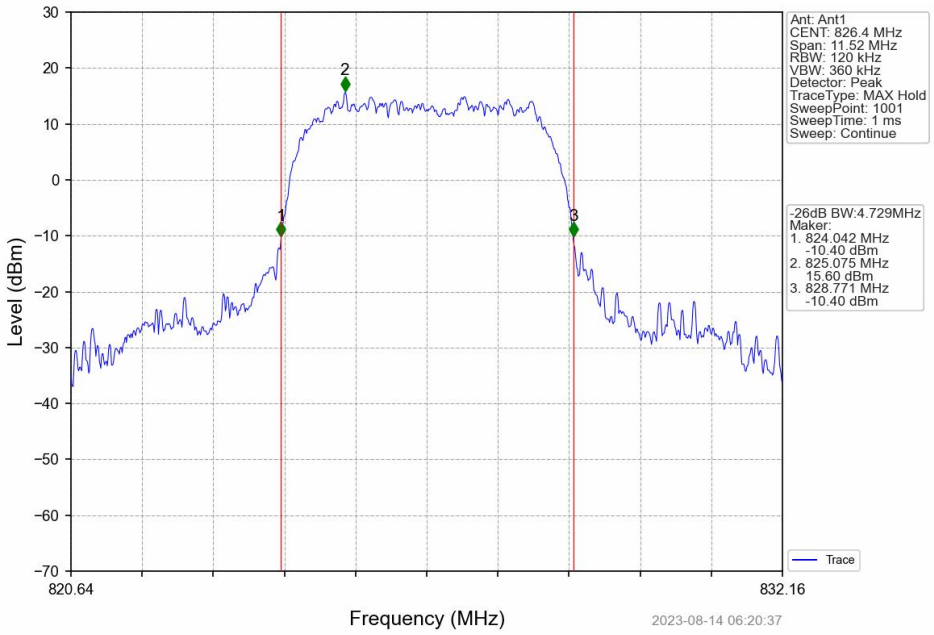
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



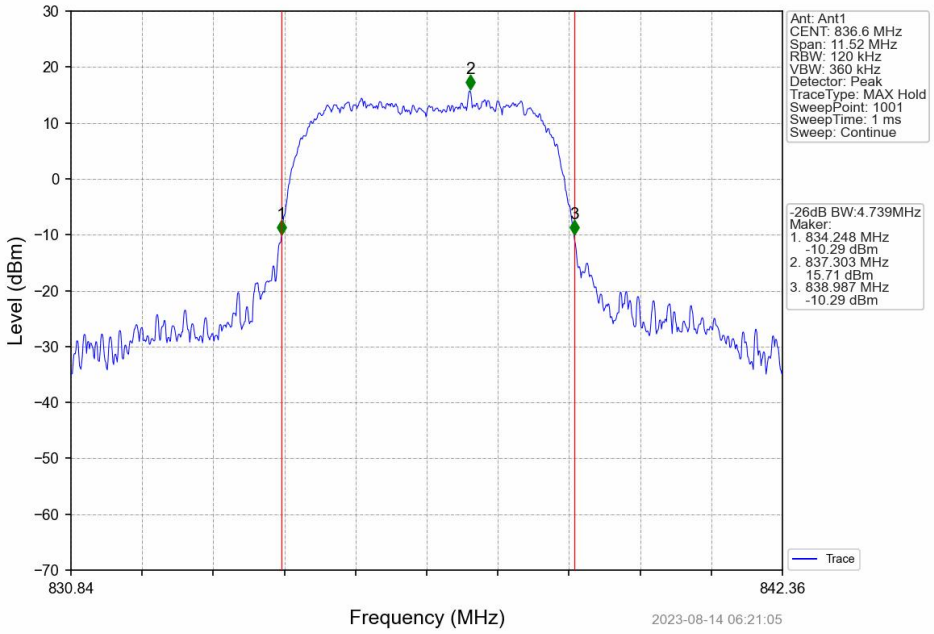
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV


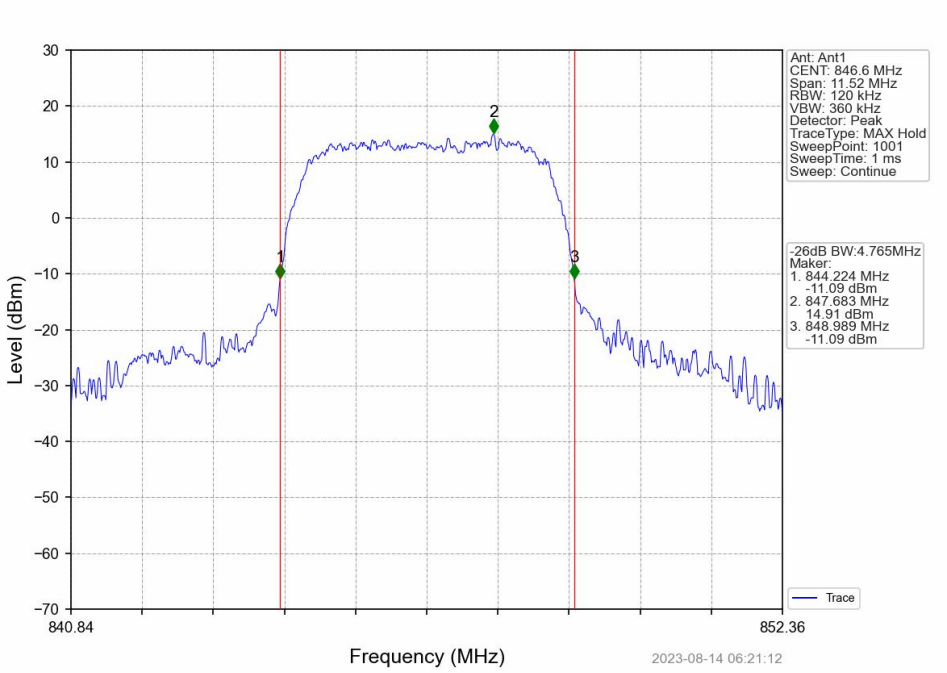
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



5. Peak-Average Ratio

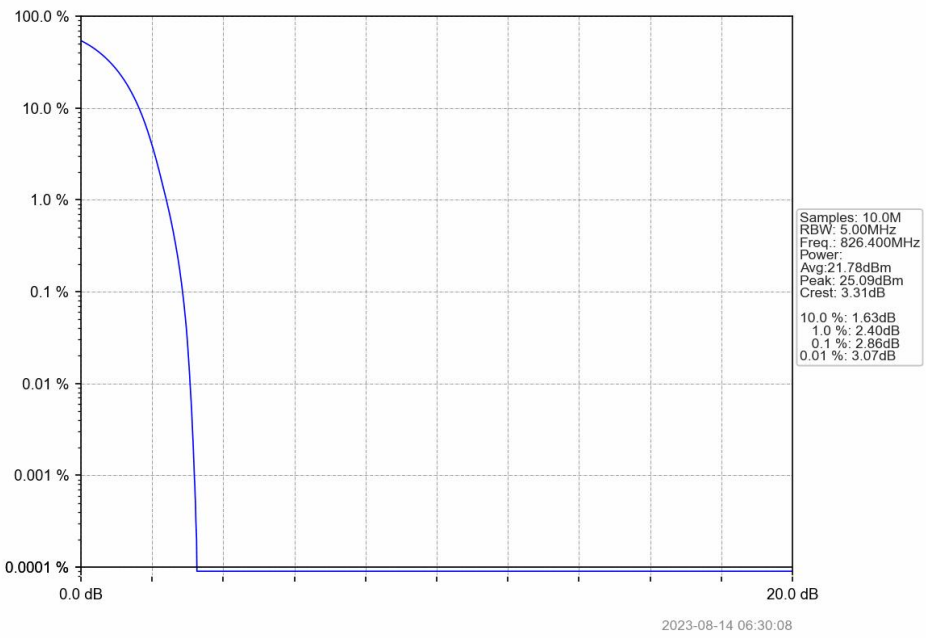
5.1 Band5

5.1.1 Test Result

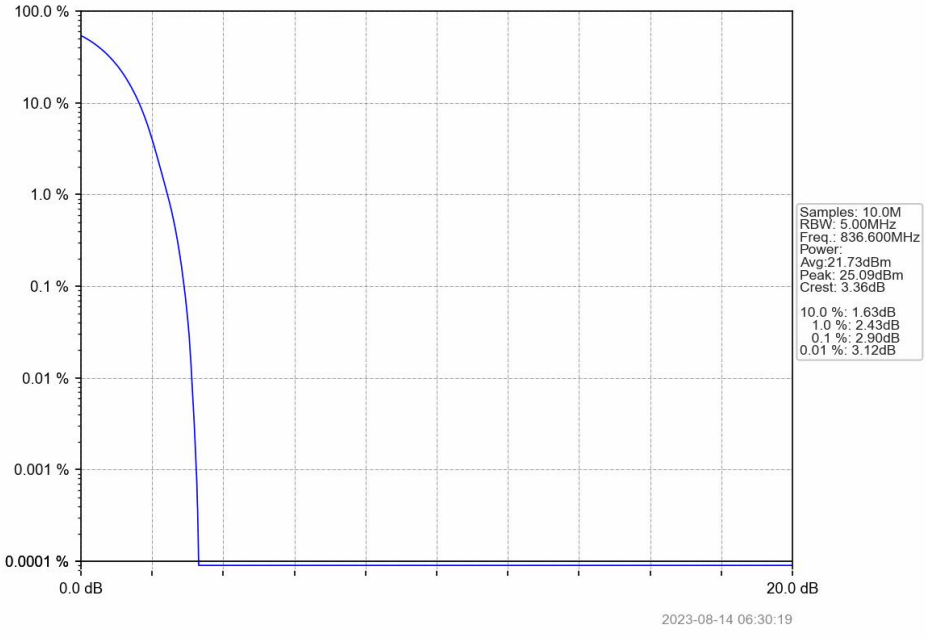
Band: 5						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	2.86	<=13	Pass
			836.6	2.90	<=13	Pass
			846.6	3.13	<=13	Pass
	HSDPA	Subtest 1	826.4	10.76	<=13	Pass
			836.6	5.72	<=13	Pass
			846.6	5.72	<=13	Pass
	HSUPA	Subtest 1	826.4	5.72	<=13	Pass
			836.6	5.68	<=13	Pass
			846.6	5.67	<=13	Pass

5.1.2 Test Graph

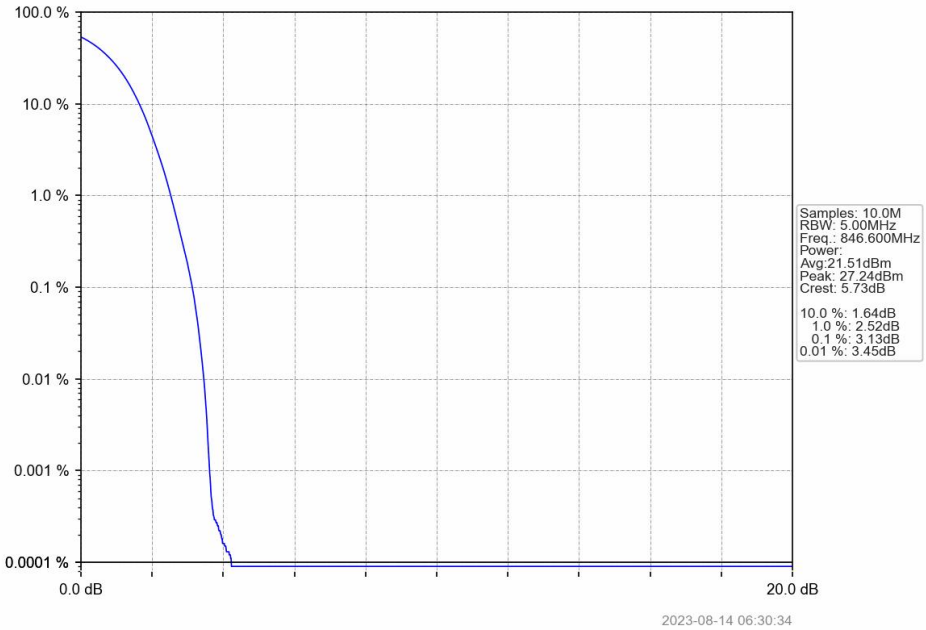
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



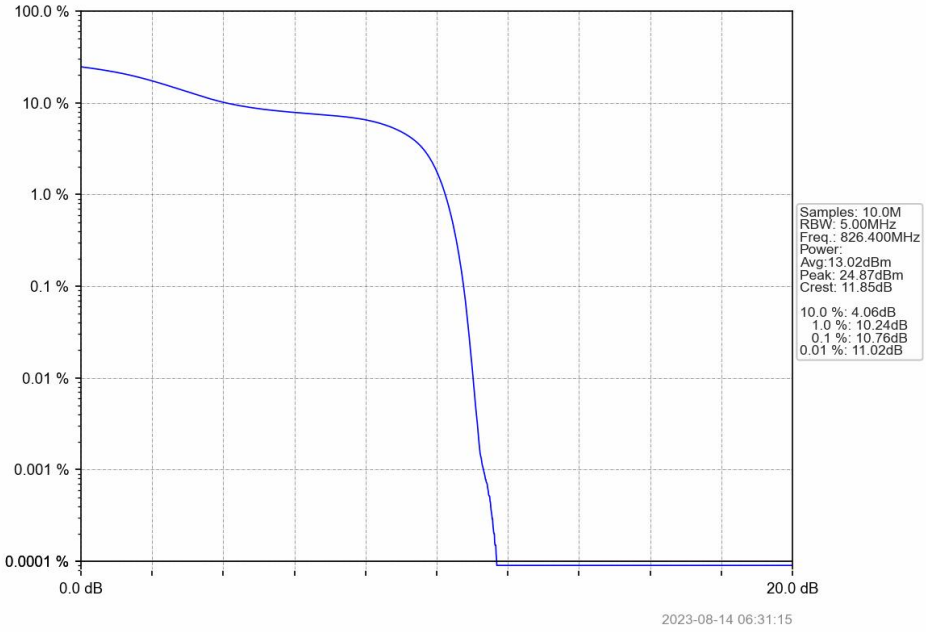
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



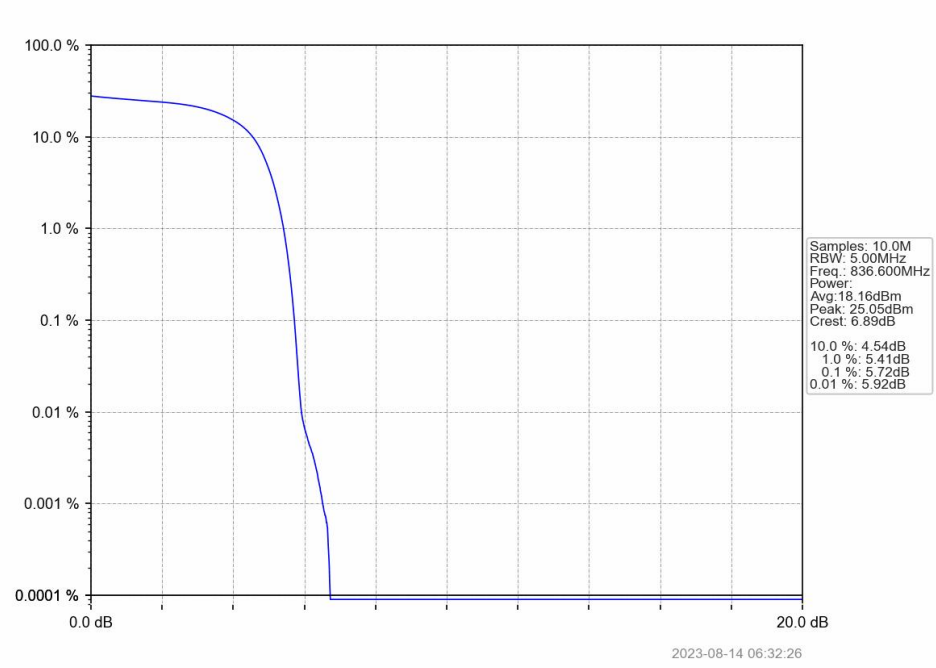
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



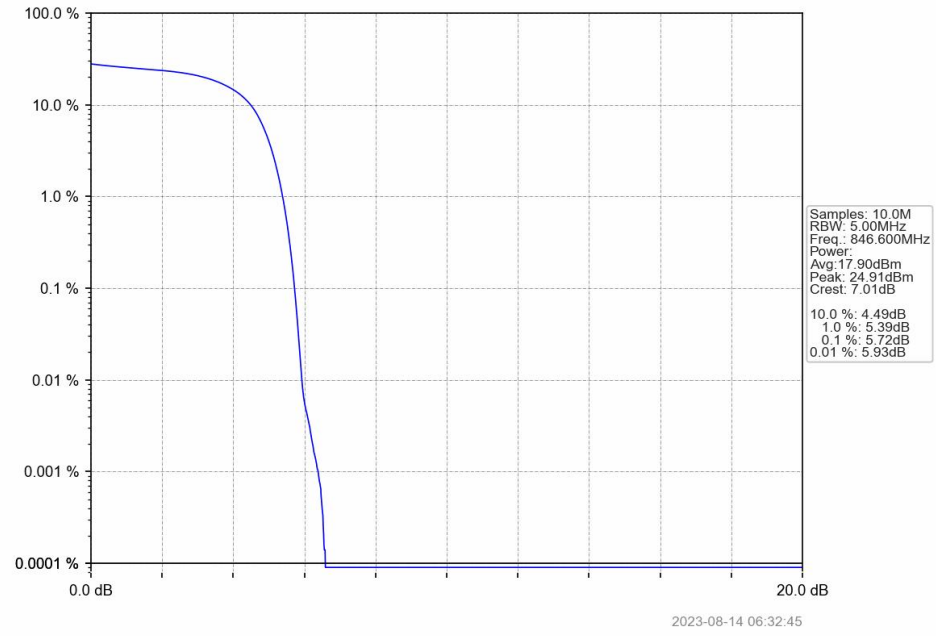
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV



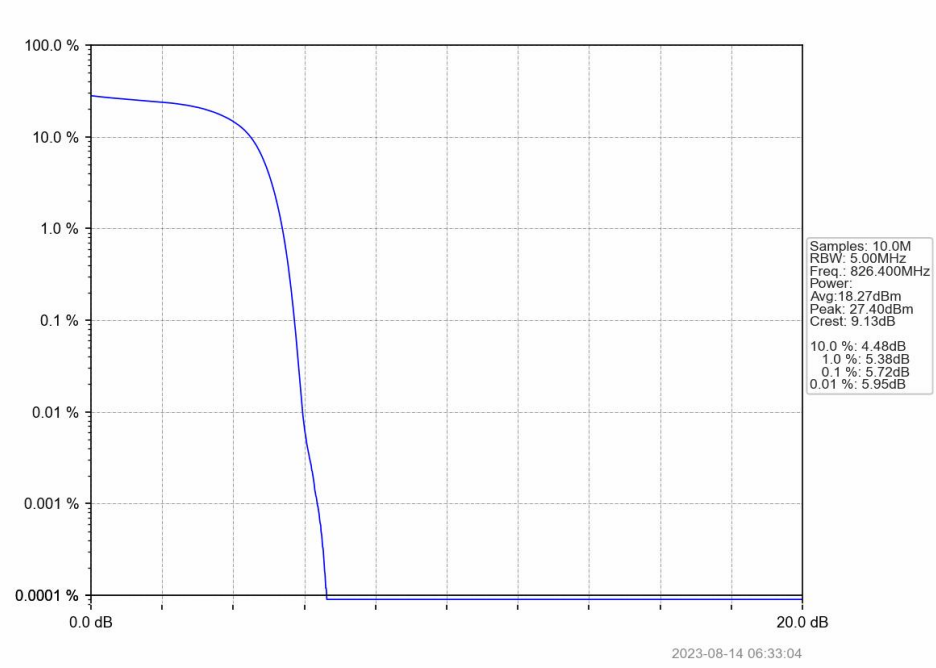
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



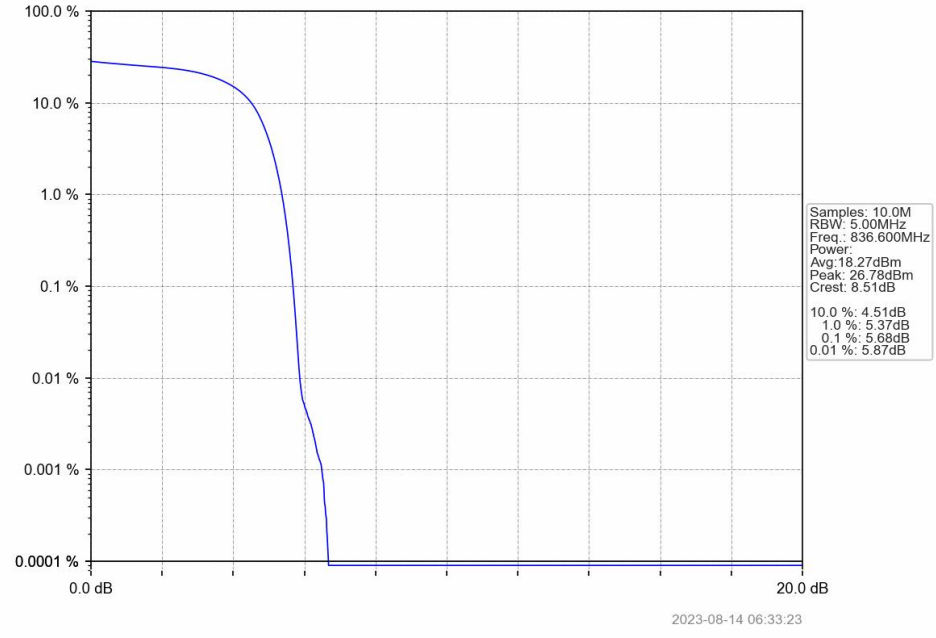
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV



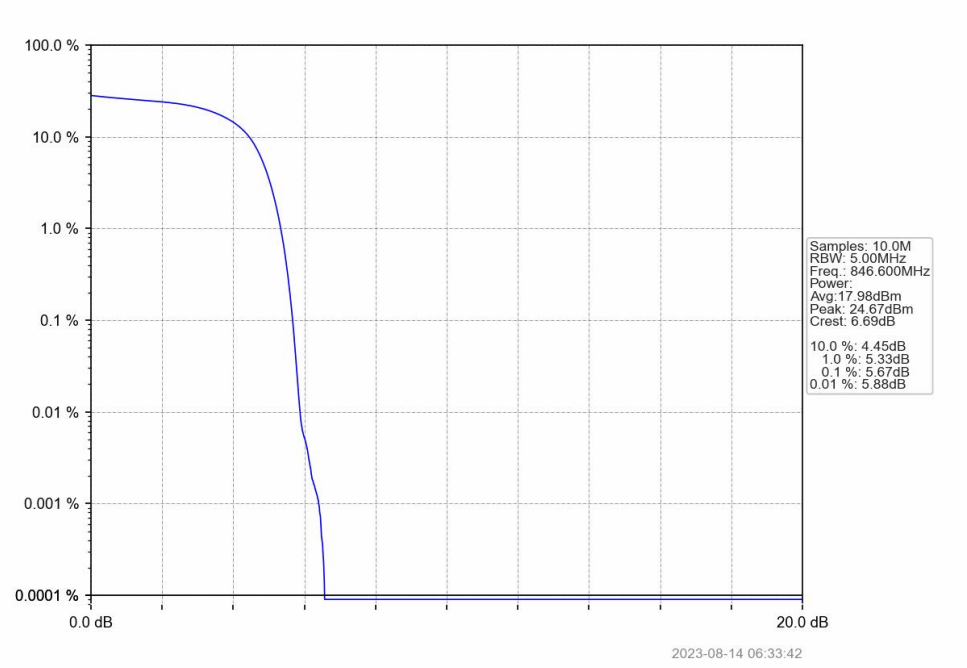
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV



Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



6. Spurious Emission

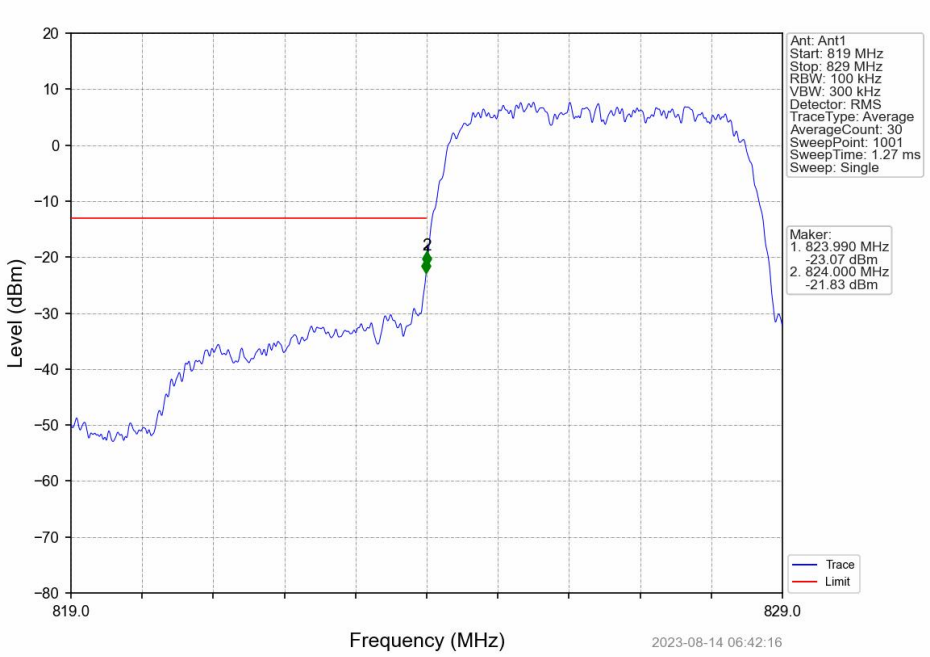
6.1 Band5

6.1.1 Test Result

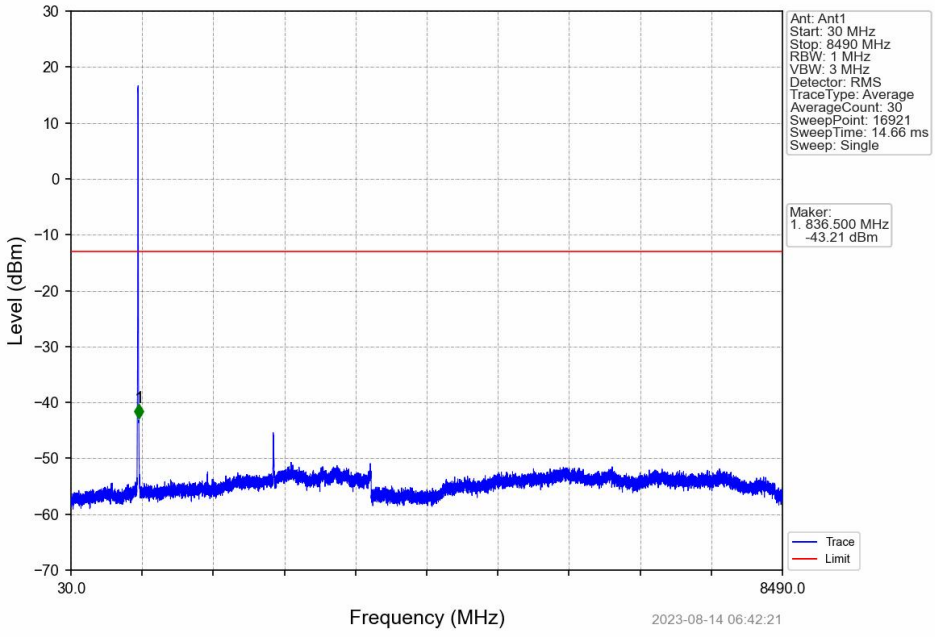
Band: 5						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			846.6	Refer To Test Graph		Pass
	HSDPA	Subtest 1	826.4	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		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

6.1.2 Test Graph

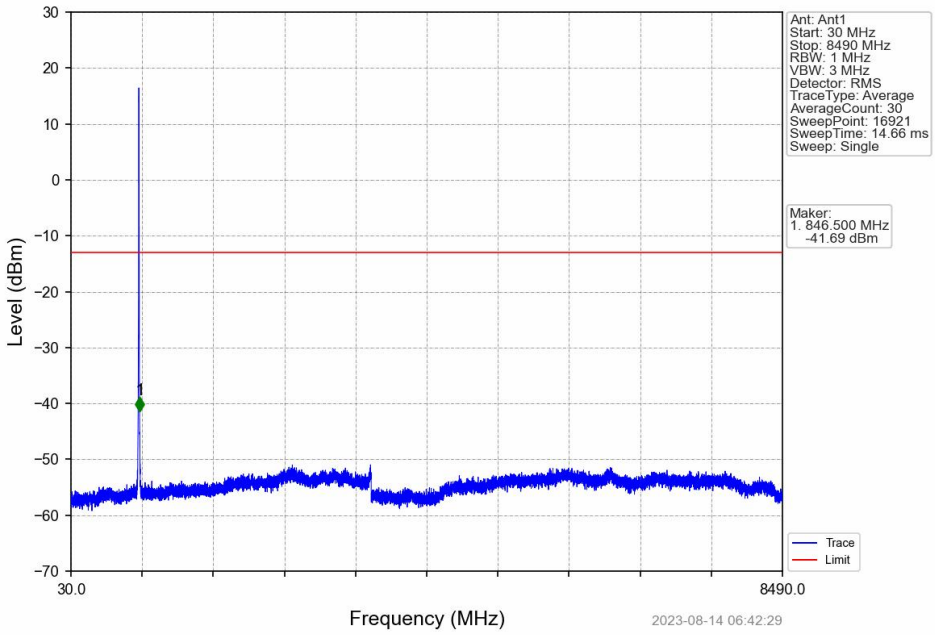
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV



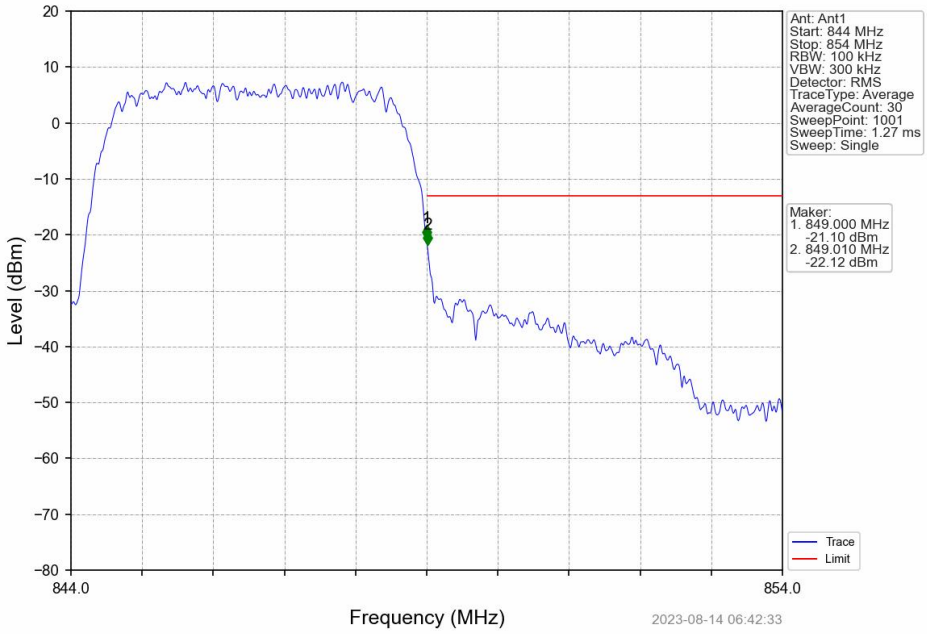
Band5_RMC_LCH_826.4MHz_12.2kbps RMC_NTNV

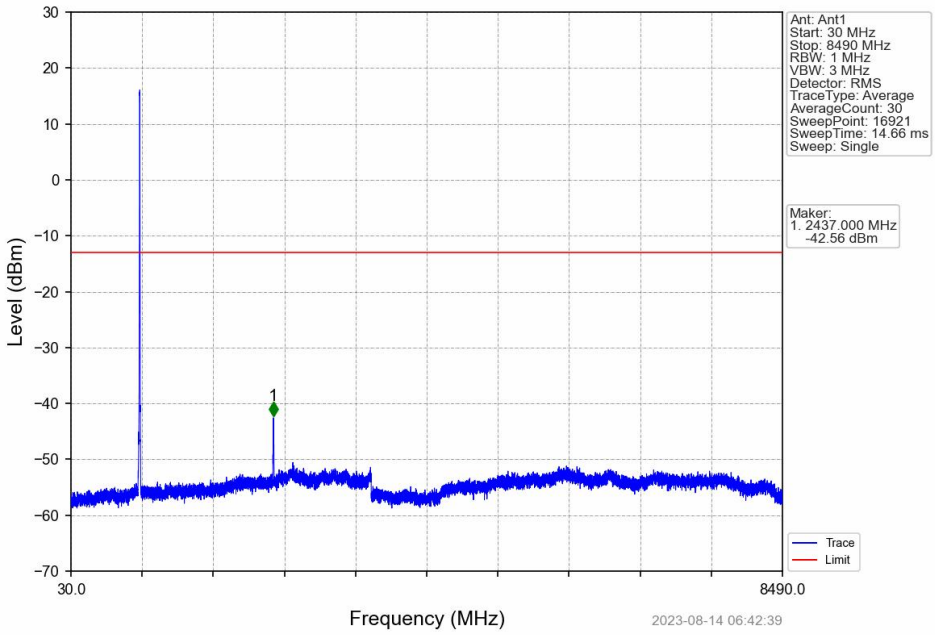


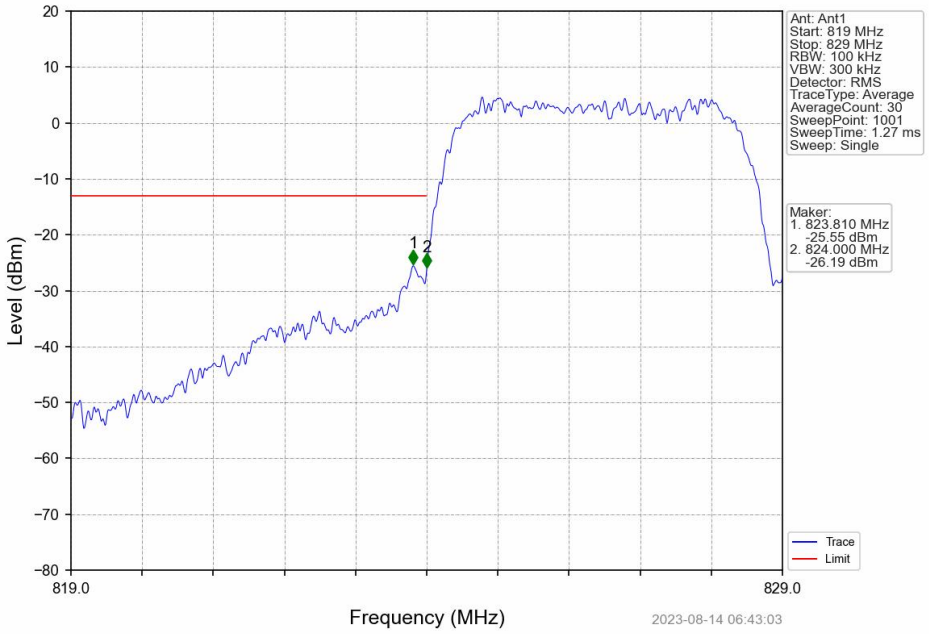
Band5_RMC_MCH_836.6MHz_12.2kbps RMC_NTNV



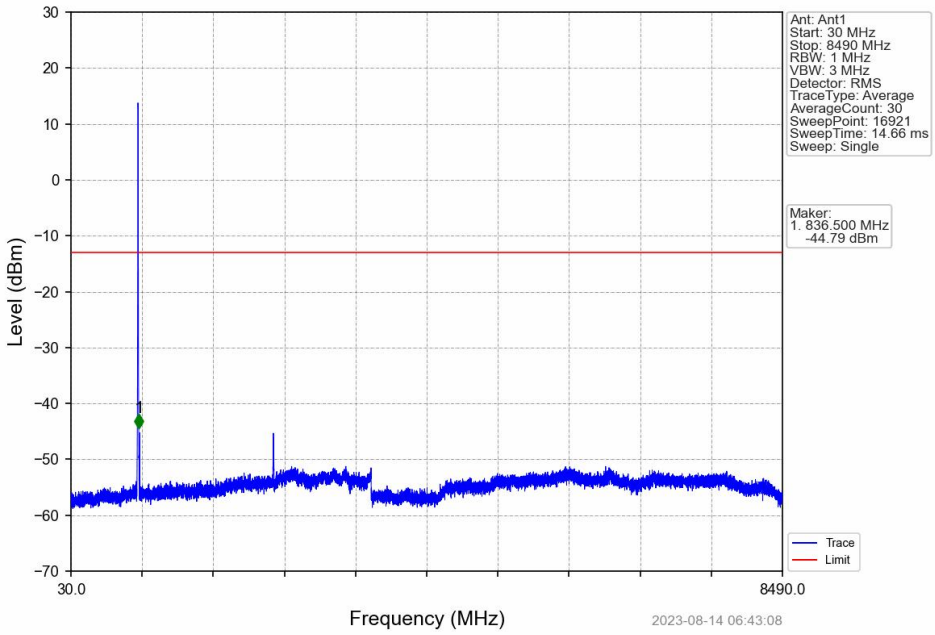
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV



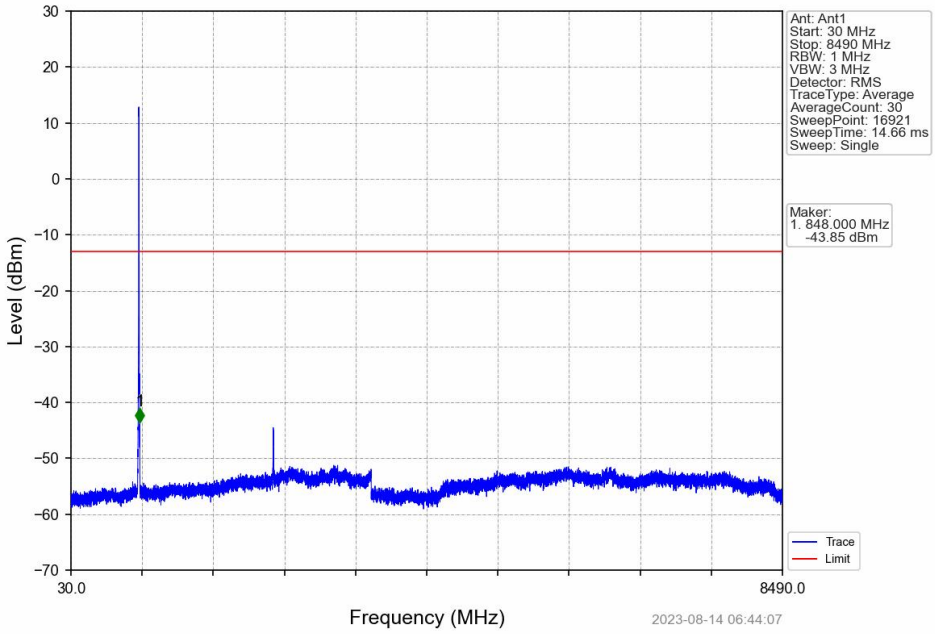
Band5_RMC_HCH_846.6MHz_12.2kbps RMC_NTNV


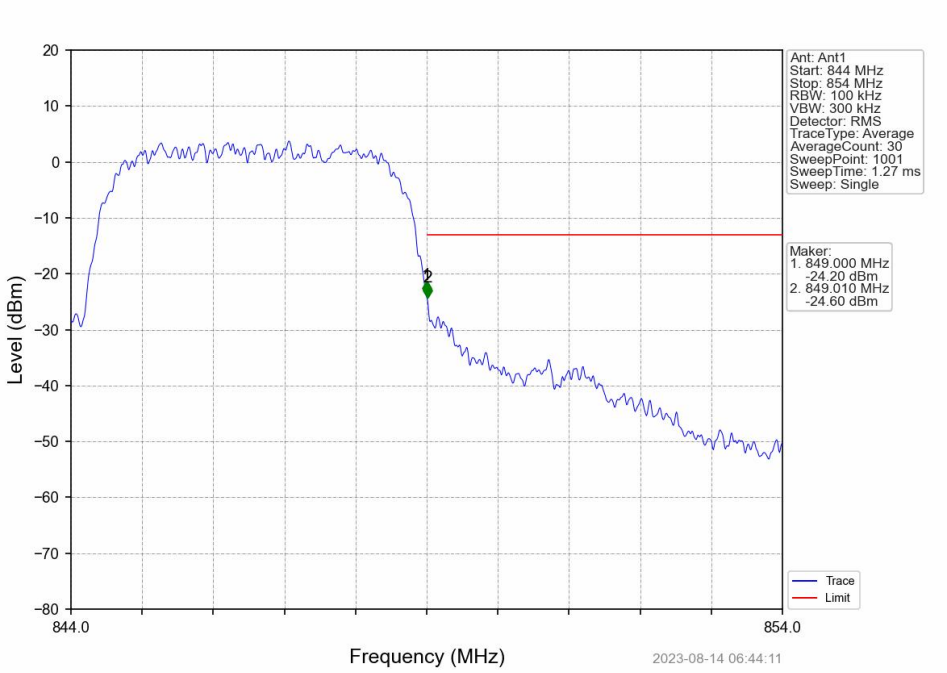
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV


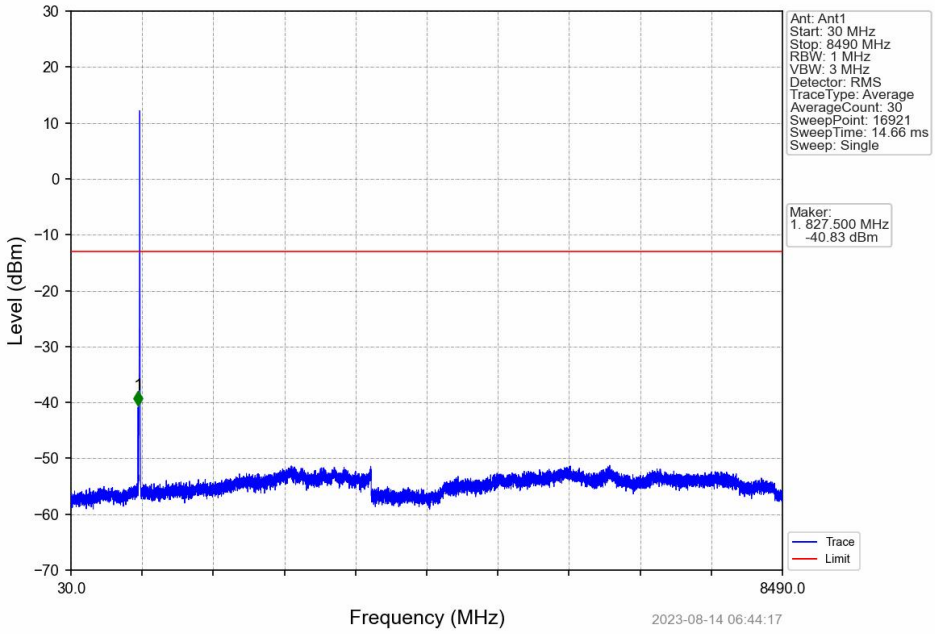
Band5_HSDPA_LCH_826.4MHz_Subtest 1_NTNV

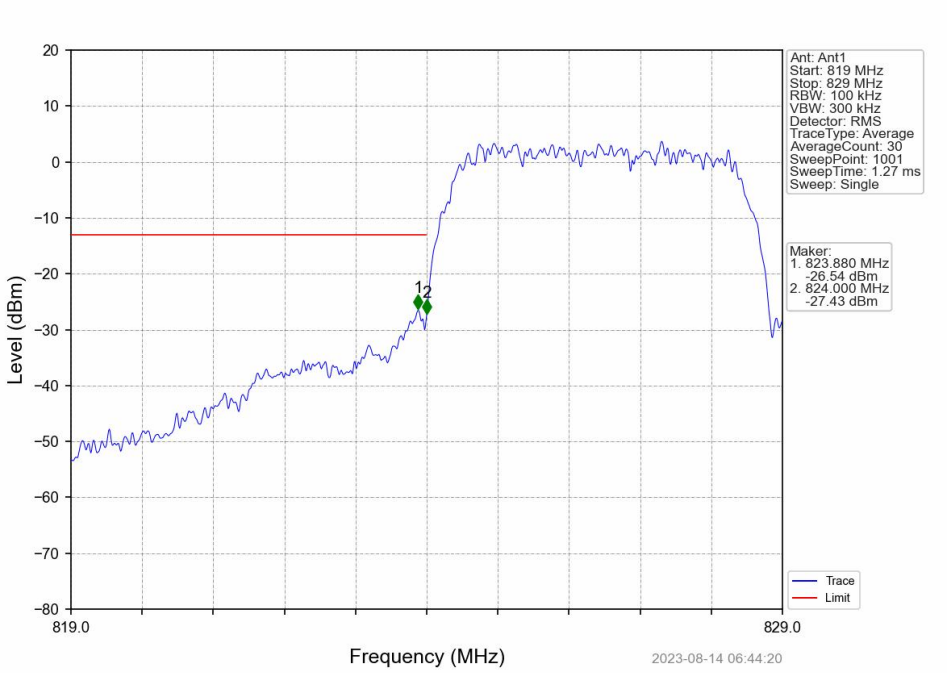


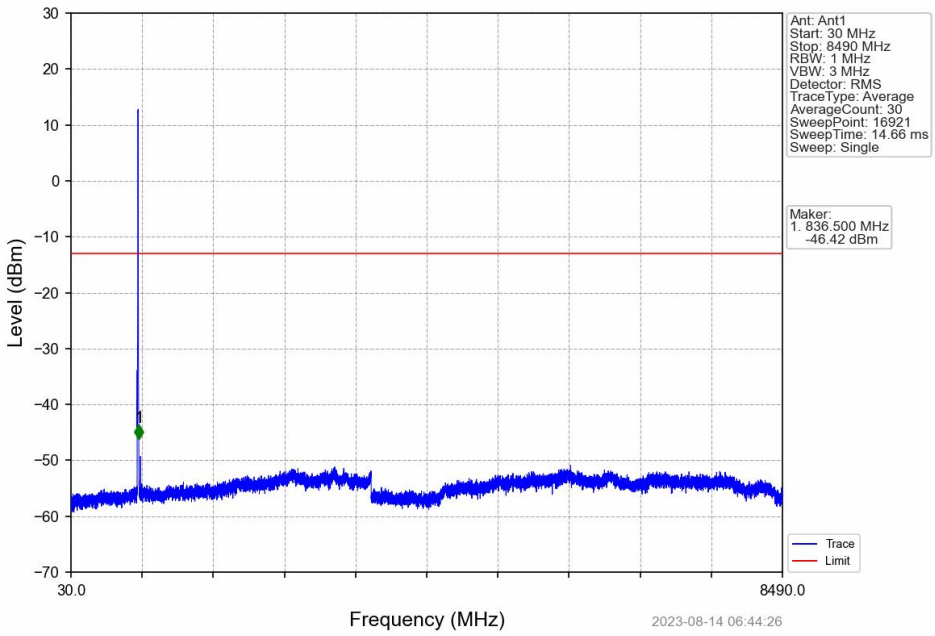
Band5_HSDPA_MCH_836.6MHz_Subtest 1_NTNV



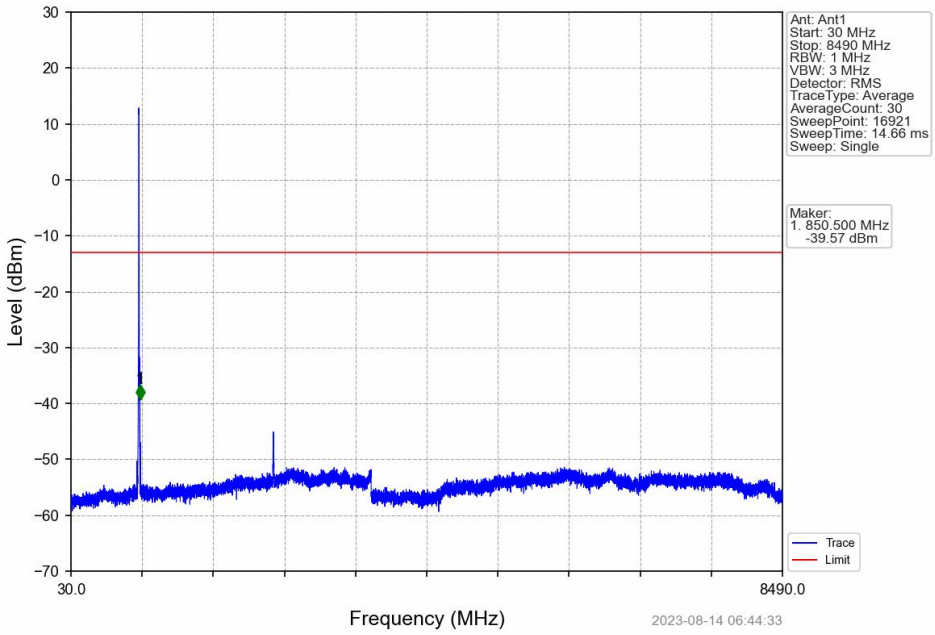
Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV


Band5_HSDPA_HCH_846.6MHz_Subtest 1_NTNV


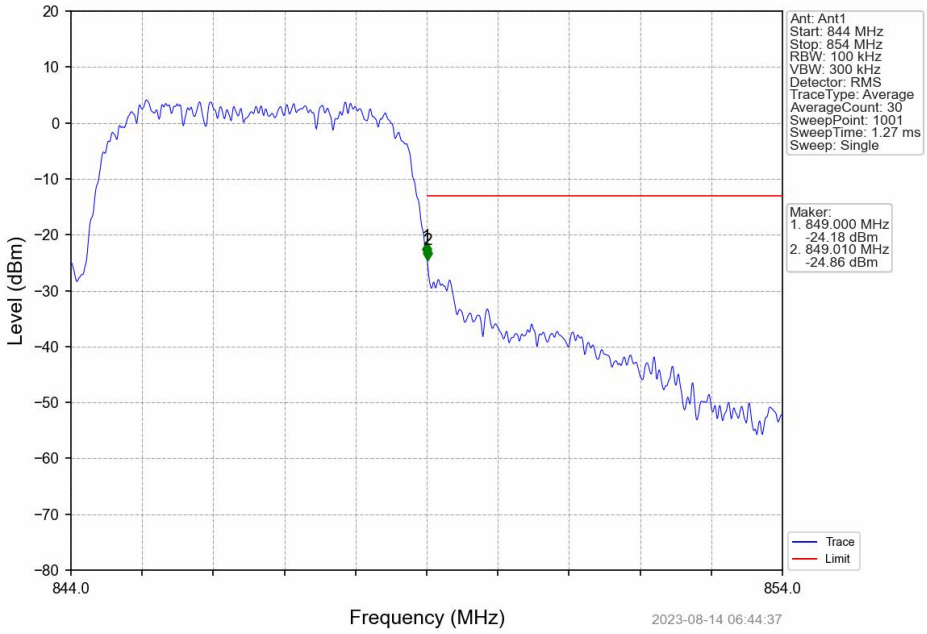
Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV


Band5_HSUPA_LCH_826.4MHz_Subtest 1_NTNV


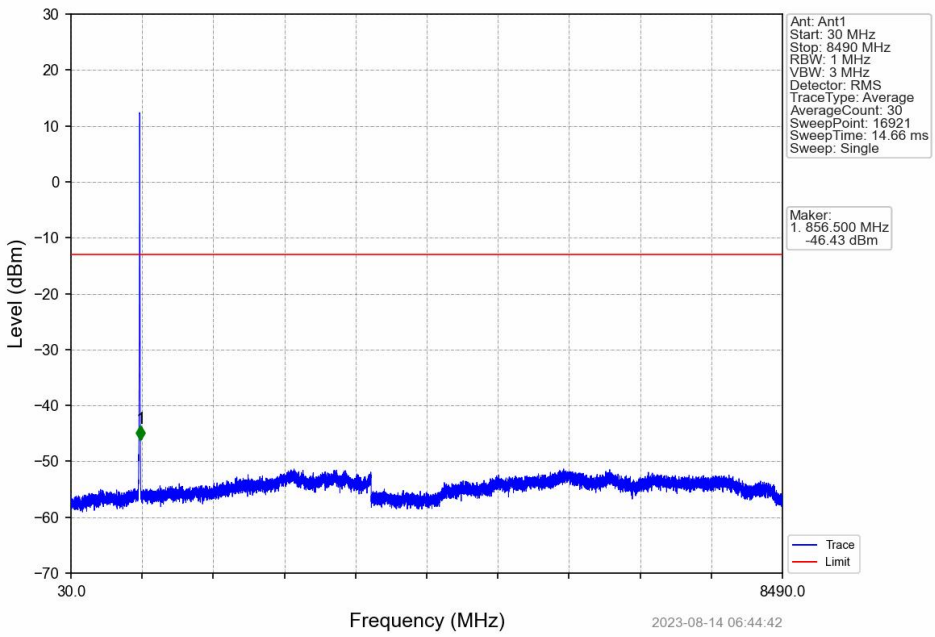
Band5_HSUPA_MCH_836.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



Band5_HSUPA_HCH_846.6MHz_Subtest 1_NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	3.84	826.4	846.6	0.1479	0.0076	ppm	4M20F9W	24E	21.70

7.2 Form731_ERP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	3.84	826.4	846.6	0.1211	0.0076	ppm	4M20F9W	24E	20.83