

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 BandV_ERP

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	23.92	-5.00	16.77	<=38.45	Pass
			836.6	23.87	-5.00	16.72	<=38.45	Pass
			846.6	23.92	-5.00	16.77	<=38.45	Pass
	HSDPA	Subtest 1	826.4	22.00	-5.00	14.85	<=38.45	Pass
		Subtest 2	826.4	22.00	-5.00	14.85	<=38.45	Pass
		Subtest 3	826.4	21.99	-5.00	14.84	<=38.45	Pass
		Subtest 4	826.4	22.01	-5.00	14.86	<=38.45	Pass
		Subtest 1	836.6	21.99	-5.00	14.84	<=38.45	Pass
		Subtest 2	836.6	22.00	-5.00	14.85	<=38.45	Pass
		Subtest 3	836.6	21.99	-5.00	14.84	<=38.45	Pass
		Subtest 4	836.6	22.00	-5.00	14.85	<=38.45	Pass
		Subtest 1	846.6	22.09	-5.00	14.94	<=38.45	Pass
		Subtest 2	846.6	22.08	-5.00	14.93	<=38.45	Pass
		Subtest 3	846.6	22.08	-5.00	14.93	<=38.45	Pass
		Subtest 4	846.6	22.12	-5.00	14.97	<=38.45	Pass
	HSUPA	Subtest 1	826.4	19.91	-5.00	12.76	<=38.45	Pass
		Subtest 2	826.4	20.59	-5.00	13.44	<=38.45	Pass
		Subtest 3	826.4	20.09	-5.00	12.94	<=38.45	Pass
		Subtest 4	826.4	19.38	-5.00	12.23	<=38.45	Pass
		Subtest 5	826.4	19.29	-5.00	12.14	<=38.45	Pass
		Subtest 1	836.6	19.93	-5.00	12.78	<=38.45	Pass
		Subtest 2	836.6	19.99	-5.00	12.84	<=38.45	Pass
		Subtest 3	836.6	20.45	-5.00	13.30	<=38.45	Pass
		Subtest 4	836.6	19.18	-5.00	12.03	<=38.45	Pass
		Subtest 5	836.6	19.46	-5.00	12.31	<=38.45	Pass
		Subtest 1	846.6	19.94	-5.00	12.79	<=38.45	Pass
		Subtest 2	846.6	20.49	-5.00	13.34	<=38.45	Pass
		Subtest 3	846.6	20.21	-5.00	13.06	<=38.45	Pass
		Subtest 4	846.6	19.03	-5.00	11.88	<=38.45	Pass
		Subtest 5	846.6	19.13	-5.00	11.98	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 BandV

Band: V							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
RMC	826.4	20	3.4	0.522	0.0006	-2.5 to 2.5	Pass
			3.92	0.172	0.0002	-2.5 to 2.5	Pass
			4.53	0.365	0.0004	-2.5 to 2.5	Pass
		-30	3.92	0.265	0.0003	-2.5 to 2.5	Pass
		-20	3.92	0.365	0.0004	-2.5 to 2.5	Pass
		-10	3.92	0.336	0.0004	-2.5 to 2.5	Pass
		0	3.92	0.229	0.0003	-2.5 to 2.5	Pass
		10	3.92	0.350	0.0004	-2.5 to 2.5	Pass
		30	3.92	0.057	0.0001	-2.5 to 2.5	Pass
		40	3.92	0.458	0.0006	-2.5 to 2.5	Pass
		50	3.92	0.350	0.0004	-2.5 to 2.5	Pass
	836.6	20	3.4	-0.107	-0.0001	-2.5 to 2.5	Pass
			3.92	-0.257	-0.0003	-2.5 to 2.5	Pass
			4.53	-0.114	-0.0001	-2.5 to 2.5	Pass
		-30	3.92	-0.243	-0.0003	-2.5 to 2.5	Pass
		-20	3.92	-0.286	-0.0003	-2.5 to 2.5	Pass
		-10	3.92	0.086	0.0001	-2.5 to 2.5	Pass
		0	3.92	-0.472	-0.0006	-2.5 to 2.5	Pass
		10	3.92	0.165	0.0002	-2.5 to 2.5	Pass
		30	3.92	-0.451	-0.0005	-2.5 to 2.5	Pass
		40	3.92	-0.179	-0.0002	-2.5 to 2.5	Pass
		50	3.92	-0.350	-0.0004	-2.5 to 2.5	Pass
	846.6	20	3.4	-0.136	-0.0002	-2.5 to 2.5	Pass
			3.92	-0.079	-0.0001	-2.5 to 2.5	Pass
			4.53	0.329	0.0004	-2.5 to 2.5	Pass
		-30	3.92	-0.043	-0.0001	-2.5 to 2.5	Pass
		-20	3.92	0.343	0.0004	-2.5 to 2.5	Pass
		-10	3.92	0.057	0.0001	-2.5 to 2.5	Pass
		0	3.92	0.257	0.0003	-2.5 to 2.5	Pass
		10	3.92	0.236	0.0003	-2.5 to 2.5	Pass
		30	3.92	-0.365	-0.0004	-2.5 to 2.5	Pass
		40	3.92	0.136	0.0002	-2.5 to 2.5	Pass
		50	3.92	0.064	0.0001	-2.5 to 2.5	Pass
HSDPA	826.4	20	3.4	0.551	0.0007	-2.5 to 2.5	Pass
			3.92	0.916	0.0011	-2.5 to 2.5	Pass
			4.53	0.079	0.0001	-2.5 to 2.5	Pass
		-30	3.92	0.551	0.0007	-2.5 to 2.5	Pass
		-20	3.92	0.472	0.0006	-2.5 to 2.5	Pass
		-10	3.92	0.751	0.0009	-2.5 to 2.5	Pass
		0	3.92	0.815	0.0010	-2.5 to 2.5	Pass
		10	3.92	0.851	0.0010	-2.5 to 2.5	Pass
		30	3.92	1.009	0.0012	-2.5 to 2.5	Pass
		40	3.92	1.109	0.0013	-2.5 to 2.5	Pass
		50	3.92	0.365	0.0004	-2.5 to 2.5	Pass
	836.6	20	3.4	5.565	0.0067	-2.5 to 2.5	Pass
			3.92	5.279	0.0063	-2.5 to 2.5	Pass
			4.53	5.672	0.0068	-2.5 to 2.5	Pass

		-30	3.92	5.314	0.0064	-2.5 to 2.5	Pass
		-20	3.92	5.171	0.0062	-2.5 to 2.5	Pass
		-10	3.92	5.479	0.0065	-2.5 to 2.5	Pass
		0	3.92	5.550	0.0066	-2.5 to 2.5	Pass
		10	3.92	5.243	0.0063	-2.5 to 2.5	Pass
		30	3.92	5.529	0.0066	-2.5 to 2.5	Pass
		40	3.92	5.279	0.0063	-2.5 to 2.5	Pass
		50	3.92	5.329	0.0064	-2.5 to 2.5	Pass
	846.6	20	3.4	-0.637	-0.0008	-2.5 to 2.5	Pass
			3.92	-0.458	-0.0005	-2.5 to 2.5	Pass
			4.53	-0.587	-0.0007	-2.5 to 2.5	Pass
		-30	3.92	-0.737	-0.0009	-2.5 to 2.5	Pass
		-20	3.92	-0.887	-0.0010	-2.5 to 2.5	Pass
		-10	3.92	-0.694	-0.0008	-2.5 to 2.5	Pass
		0	3.92	-1.287	-0.0015	-2.5 to 2.5	Pass
		10	3.92	-0.823	-0.0010	-2.5 to 2.5	Pass
		30	3.92	-1.030	-0.0012	-2.5 to 2.5	Pass
		40	3.92	-0.393	-0.0005	-2.5 to 2.5	Pass
		50	3.92	-0.987	-0.0012	-2.5 to 2.5	Pass
HSUPA	826.4	20	3.4	-0.823	-0.0010	-2.5 to 2.5	Pass
			3.92	-1.059	-0.0013	-2.5 to 2.5	Pass
			4.53	-1.166	-0.0014	-2.5 to 2.5	Pass
		-30	3.92	-0.901	-0.0011	-2.5 to 2.5	Pass
		-20	3.92	-0.722	-0.0009	-2.5 to 2.5	Pass
		-10	3.92	-0.908	-0.0011	-2.5 to 2.5	Pass
		0	3.92	-0.672	-0.0008	-2.5 to 2.5	Pass
		10	3.92	-0.801	-0.0010	-2.5 to 2.5	Pass
		30	3.92	-0.973	-0.0012	-2.5 to 2.5	Pass
		40	3.92	-0.408	-0.0005	-2.5 to 2.5	Pass
		50	3.92	-0.722	-0.0009	-2.5 to 2.5	Pass
	836.6	20	3.4	-13.483	-0.0161	-2.5 to 2.5	Pass
			3.92	-13.661	-0.0163	-2.5 to 2.5	Pass
			4.53	-13.776	-0.0165	-2.5 to 2.5	Pass
		-30	3.92	-13.676	-0.0163	-2.5 to 2.5	Pass
		-20	3.92	-13.983	-0.0167	-2.5 to 2.5	Pass
		-10	3.92	-13.590	-0.0162	-2.5 to 2.5	Pass
		0	3.92	-13.654	-0.0163	-2.5 to 2.5	Pass
		10	3.92	-13.347	-0.0160	-2.5 to 2.5	Pass
		30	3.92	-11.222	-0.0134	-2.5 to 2.5	Pass
		40	3.92	-11.466	-0.0137	-2.5 to 2.5	Pass
		50	3.92	-11.694	-0.0140	-2.5 to 2.5	Pass
	846.6	20	3.4	-3.741	-0.0044	-2.5 to 2.5	Pass
			3.92	-3.612	-0.0043	-2.5 to 2.5	Pass
			4.53	-4.306	-0.0051	-2.5 to 2.5	Pass
		-30	3.92	-3.440	-0.0041	-2.5 to 2.5	Pass
		-20	3.92	-3.583	-0.0042	-2.5 to 2.5	Pass
		-10	3.92	-3.777	-0.0045	-2.5 to 2.5	Pass
		0	3.92	-3.369	-0.0040	-2.5 to 2.5	Pass
		10	3.92	-4.027	-0.0048	-2.5 to 2.5	Pass
		30	3.92	-3.397	-0.0040	-2.5 to 2.5	Pass
		40	3.92	-3.884	-0.0046	-2.5 to 2.5	Pass
		50	3.92	-3.297	-0.0039	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 BandV_OBW

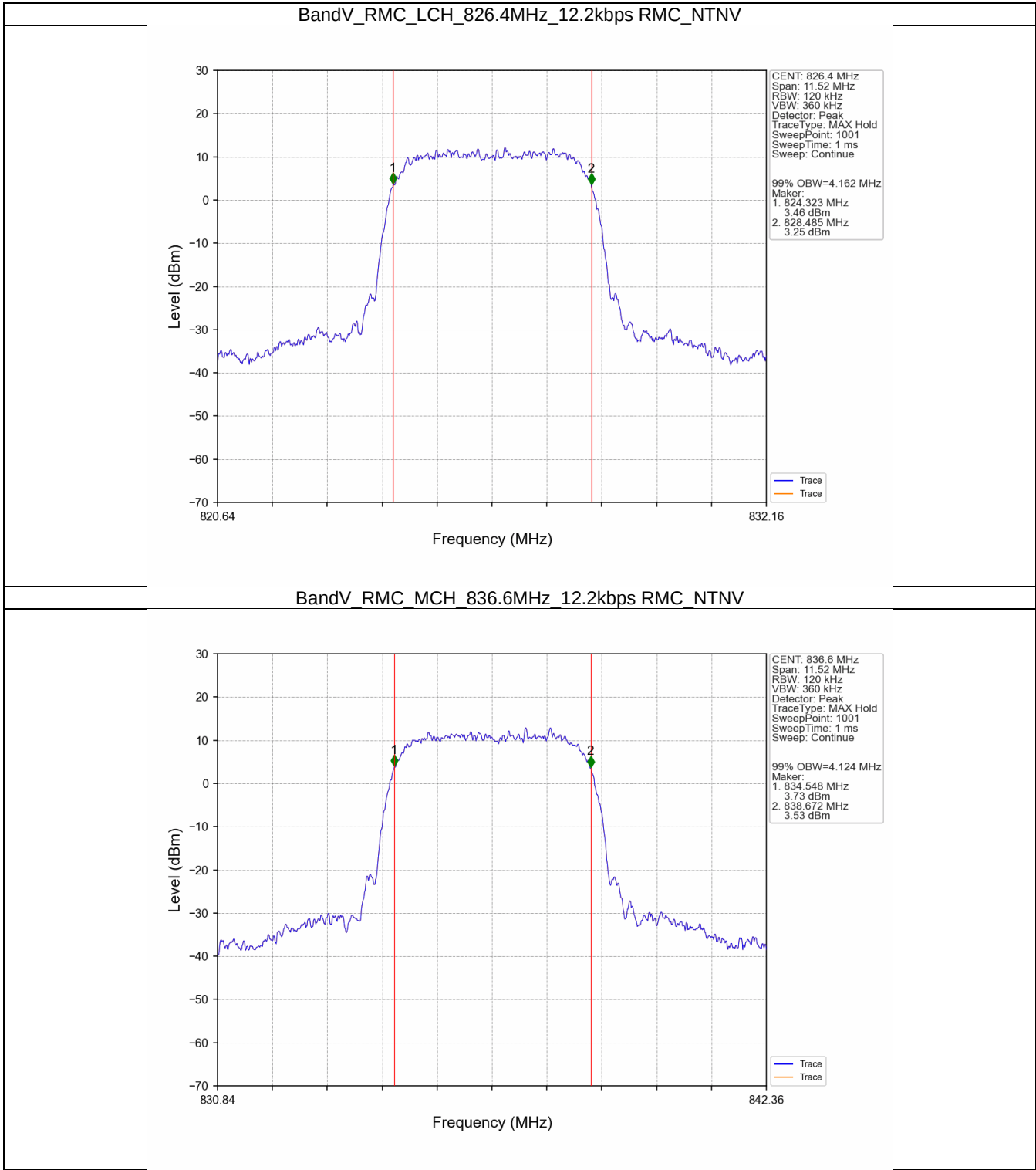
Band: V						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.162	/	Pass
			836.6	4.124	/	Pass
			846.6	4.143	/	Pass
	HSDPA	Subtest 1	826.4	4.160	/	Pass
			836.6	4.140	/	Pass
			846.6	4.149	/	Pass
	HSUPA	Subtest 1	826.4	4.156	/	Pass
			836.6	4.135	/	Pass
			846.6	4.145	/	Pass

3.1.2 BandV_XDB

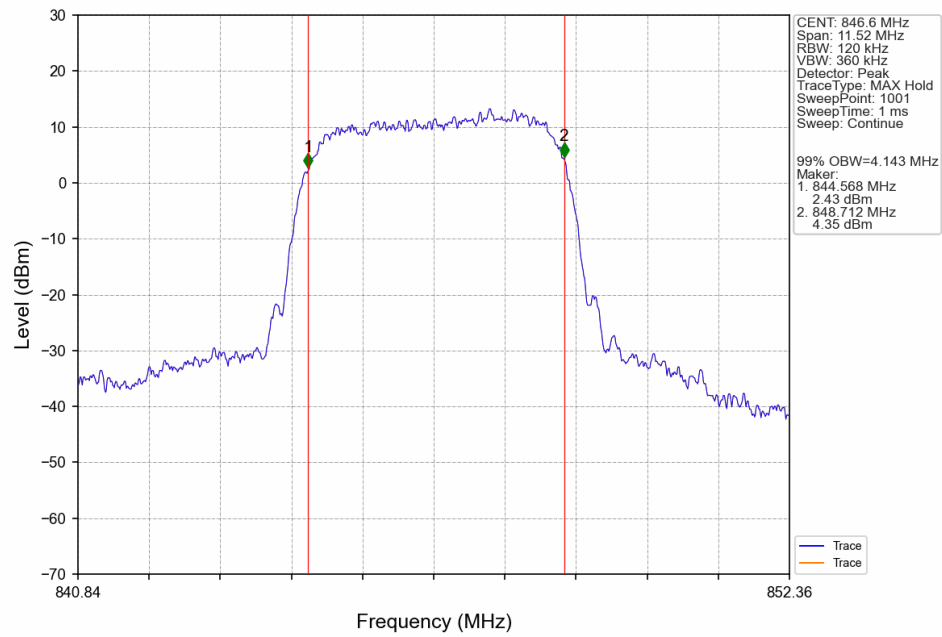
Band: V						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	4.760	/	Pass
			836.6	4.729	/	Pass
			846.6	4.722	/	Pass
	HSDPA	Subtest 1	826.4	4.773	/	Pass
			836.6	4.736	/	Pass
			846.6	4.758	/	Pass
	HSUPA	Subtest 1	826.4	4.766	/	Pass
			836.6	4.764	/	Pass
			846.6	4.730	/	Pass

3.2 Test Graph

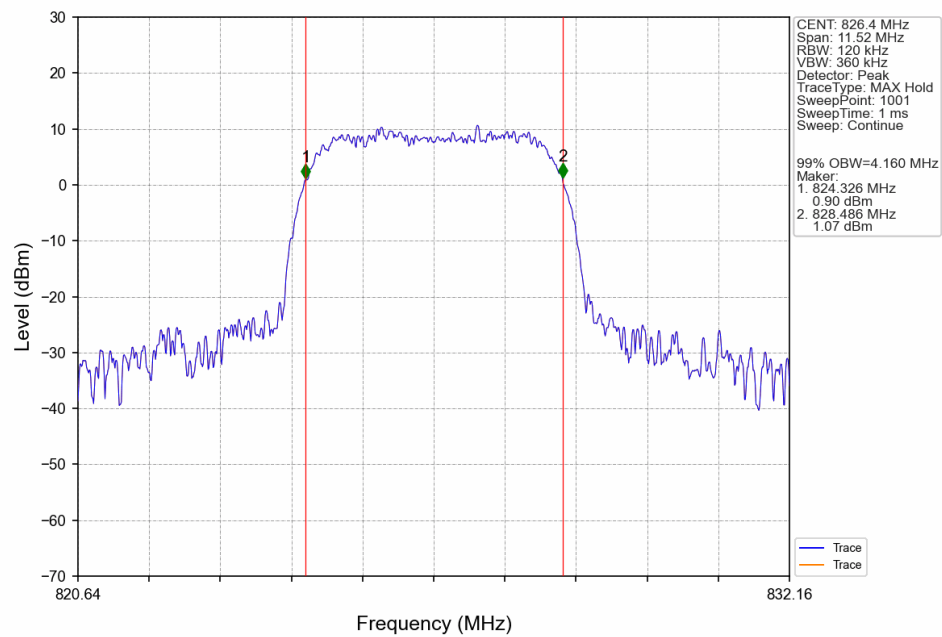
3.2.1 BandV_OBW



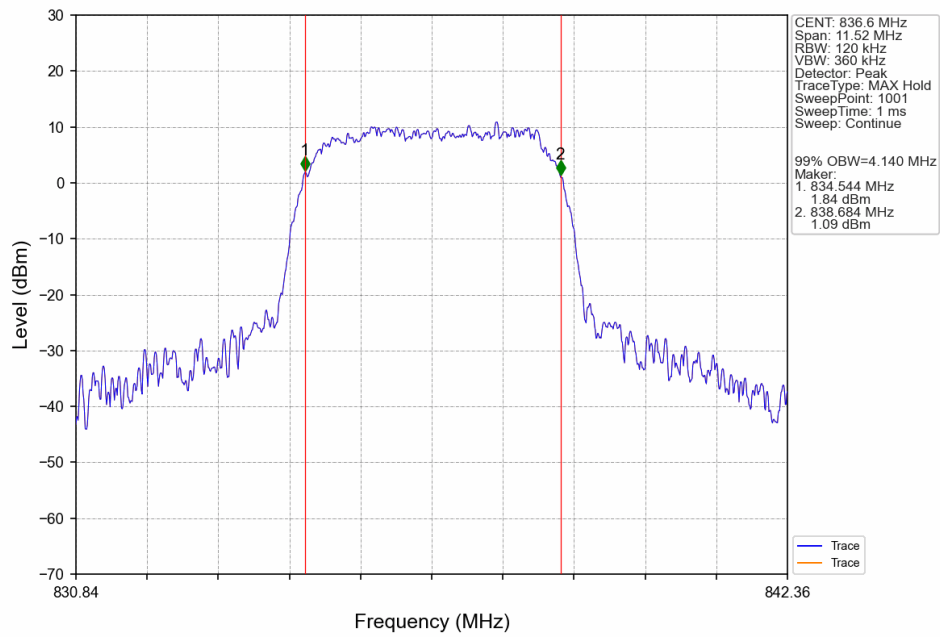
BandV RMC HCH 846.6MHz 12.2kbps RMC NTN



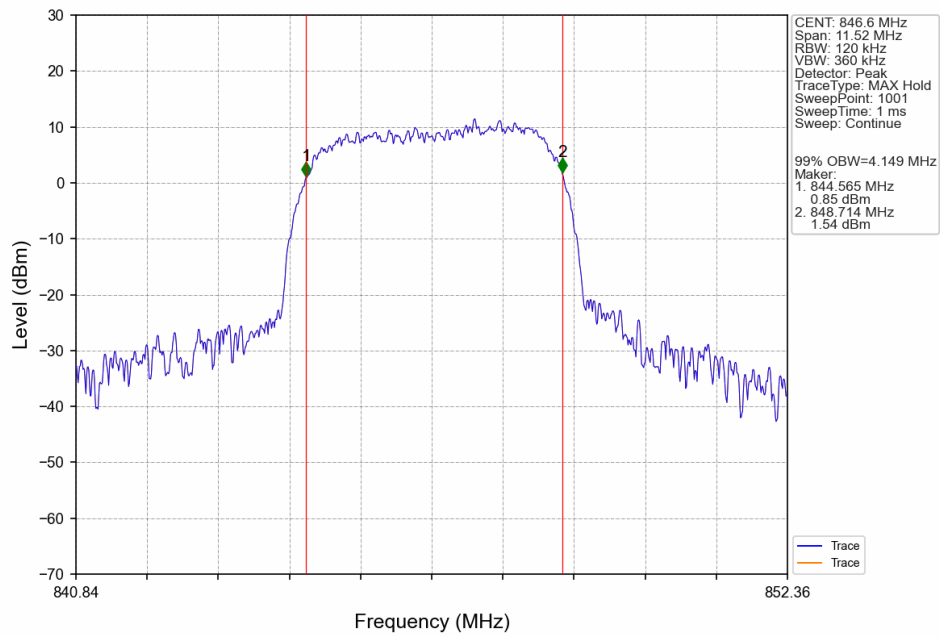
BandV HSDPA LCH 826.4MHz Subtest 1 NTN



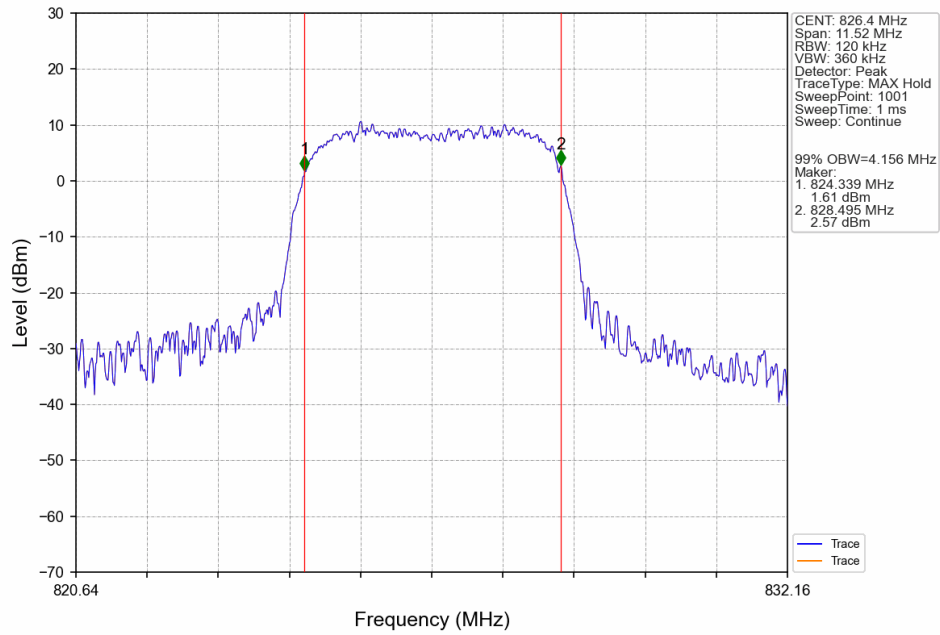
BandV HSDPA MCH 836.6MHz Subtest 1 NTN



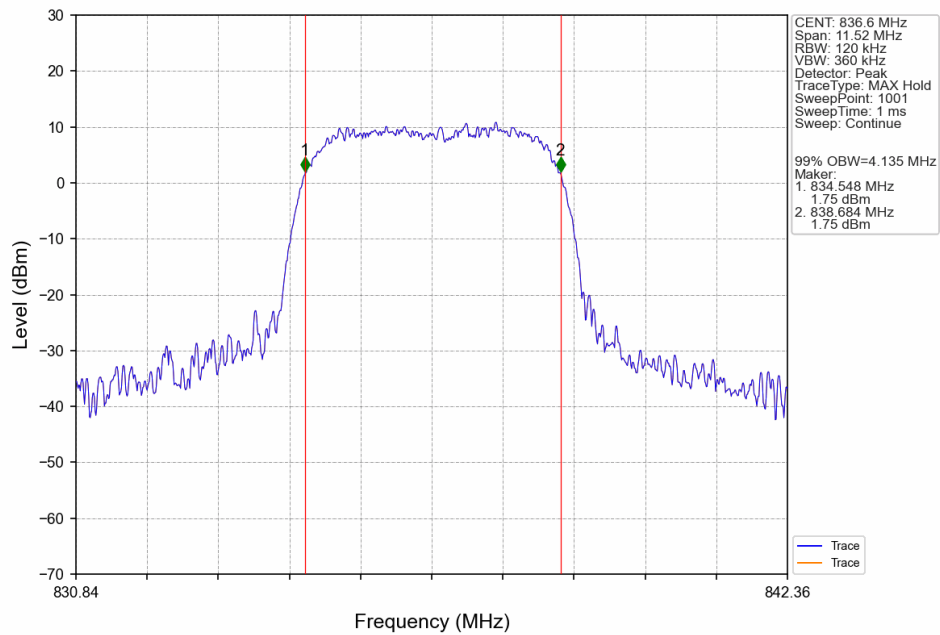
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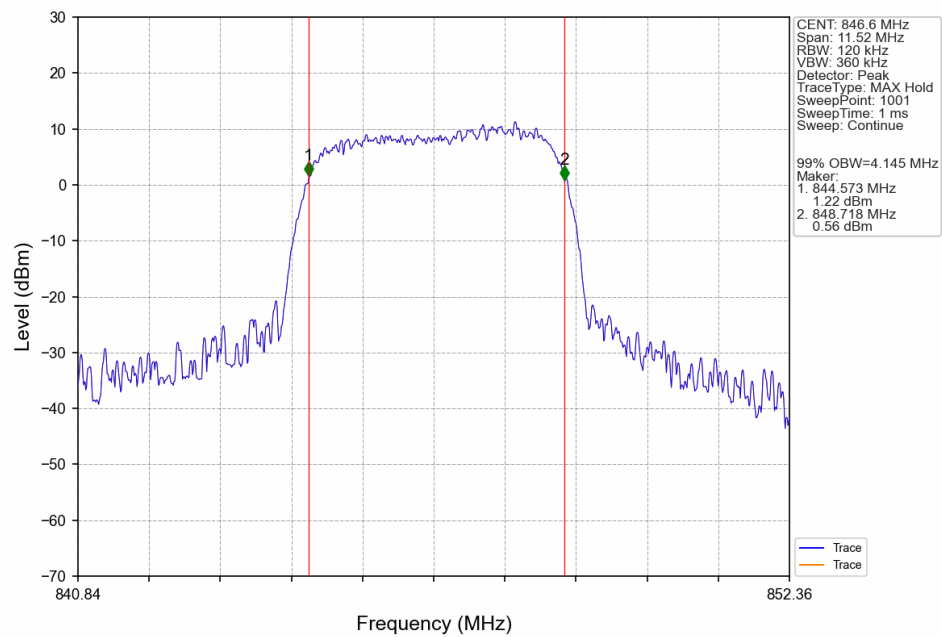
BandV HSUPA LCH 826.4MHz Subtest 1 NTN



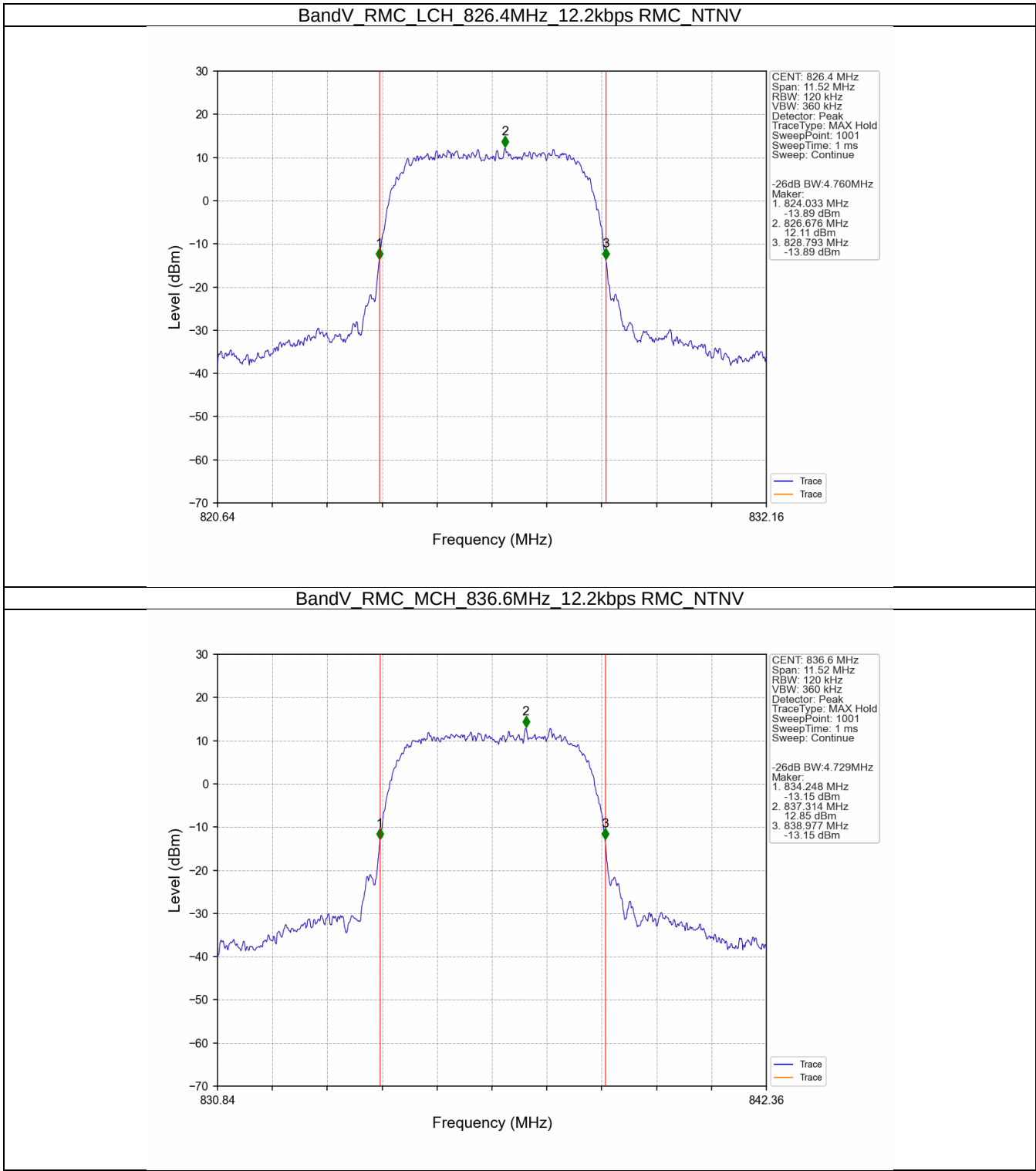
BandV HSUPA MCH 836.6MHz Subtest 1 NTN



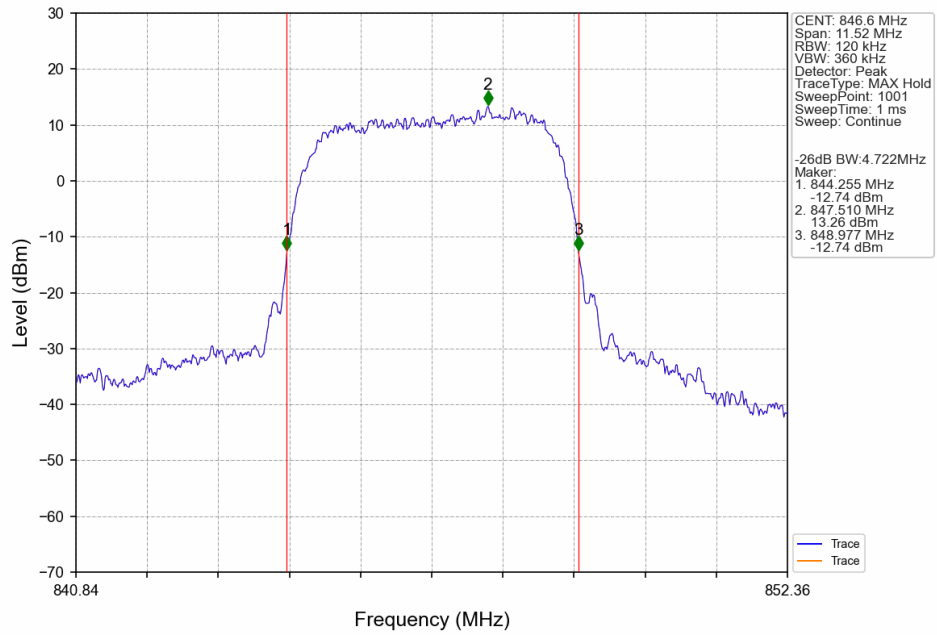
BandV HSUPA HCH 846.6MHz Subtest 1 NTN



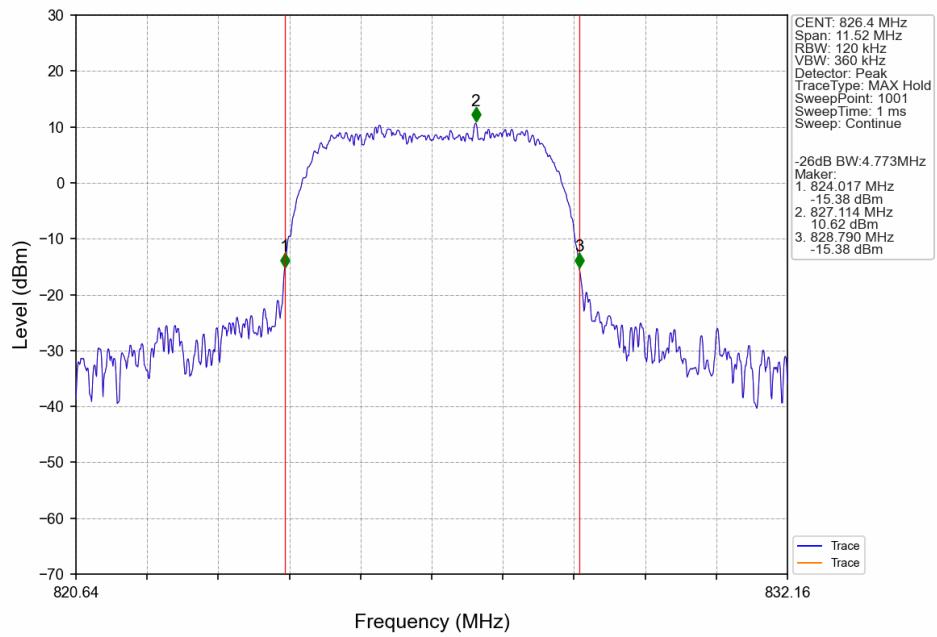
3.2.2 BandV_XDB



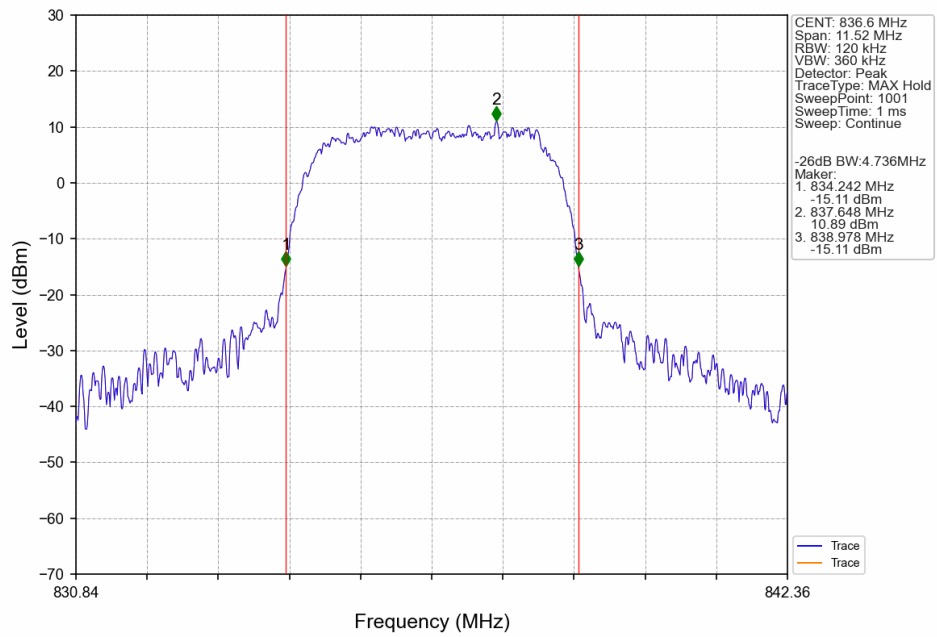
BandV RMC HCH 846.6MHz 12.2kbps RMC NTN



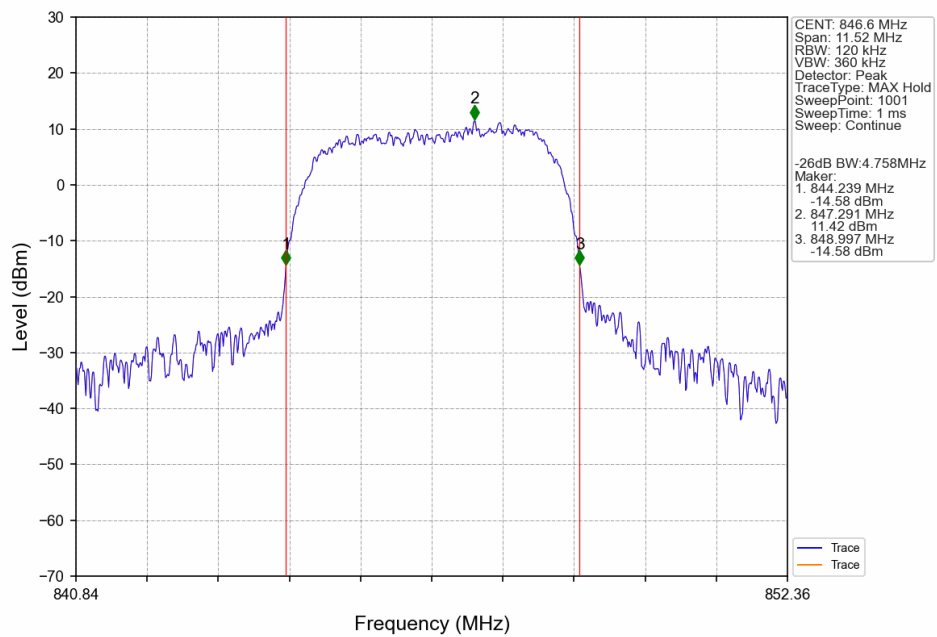
BandV HSDPA LCH 826.4MHz Subtest 1 NTN



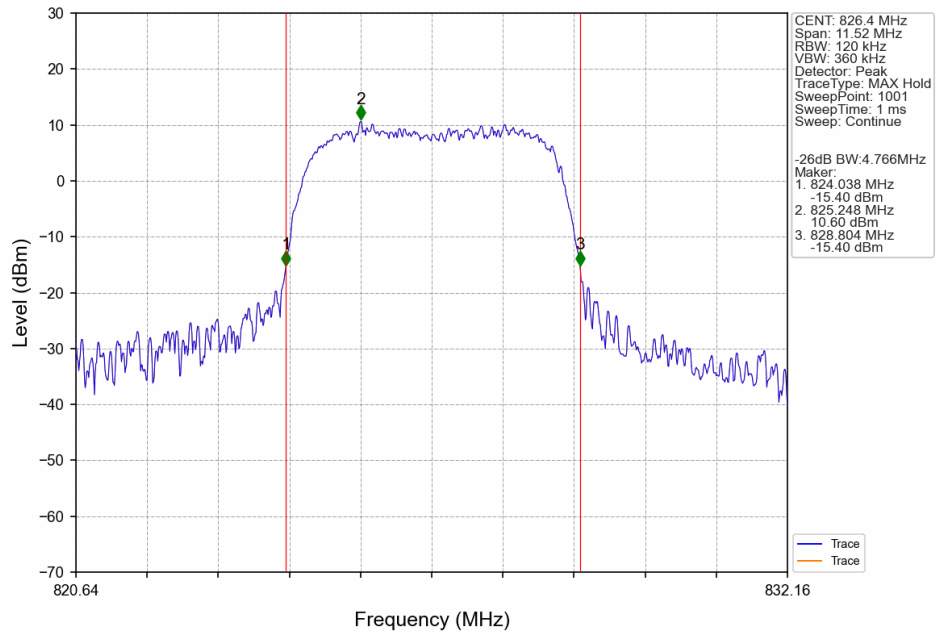
BandV HSDPA MCH 836.6MHz Subtest 1 NTN



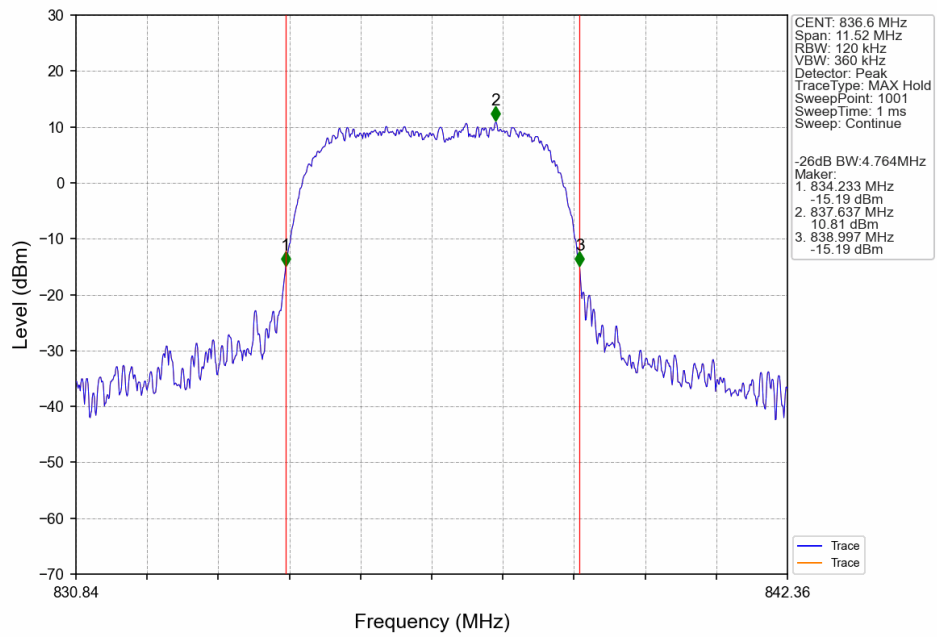
BandV HSDPA HCH 846.6MHz Subtest 1 NTN



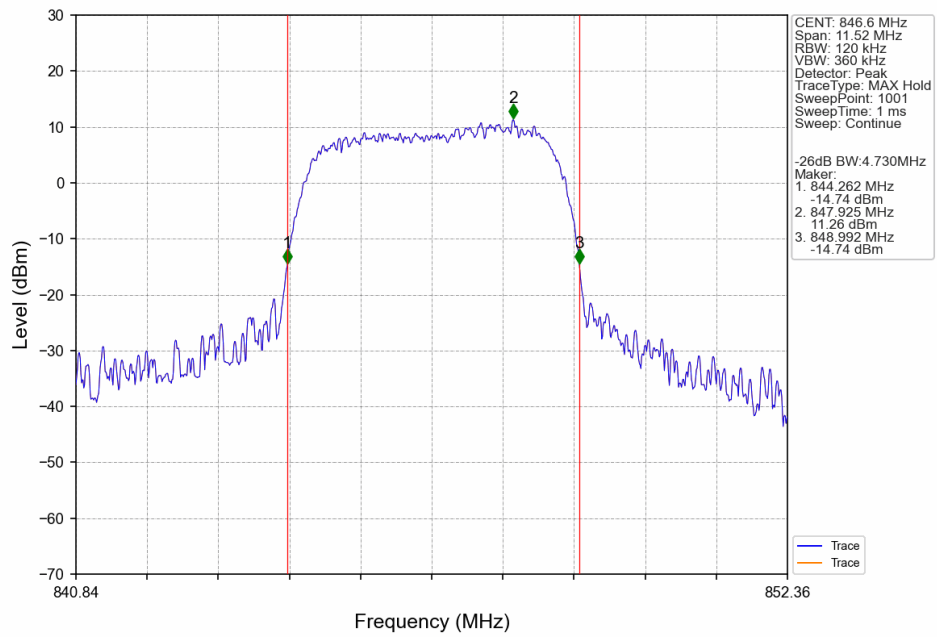
BandV HSUPA LCH 826.4MHz Subtest 1 NTN



BandV HSUPA MCH 836.6MHz Subtest 1 NTN



BandV HSUPA HCH 846.6MHz Subtest 1 NTN



4. Peak-Average Ratio

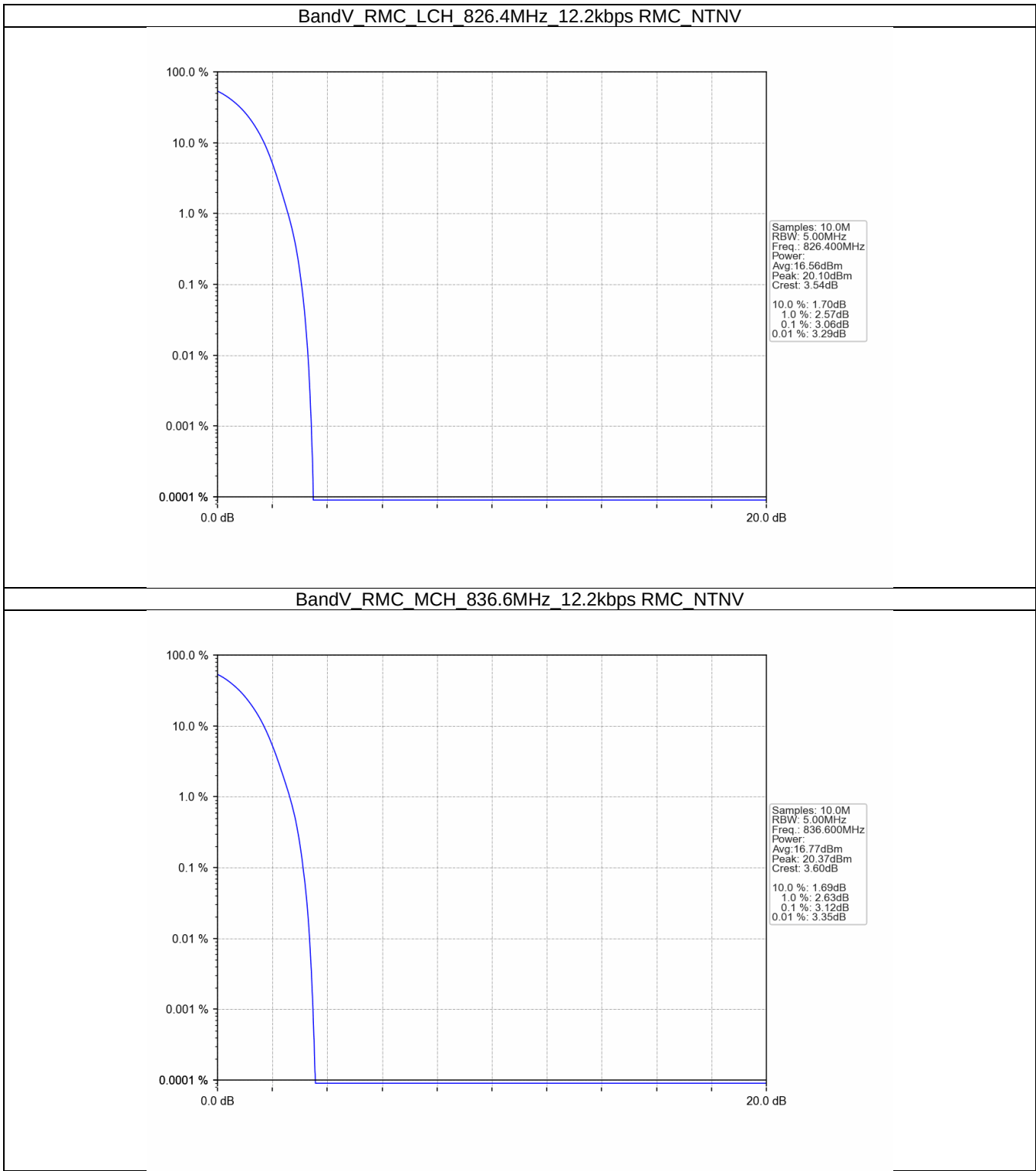
4.1 Test Result

4.1.1 BandV

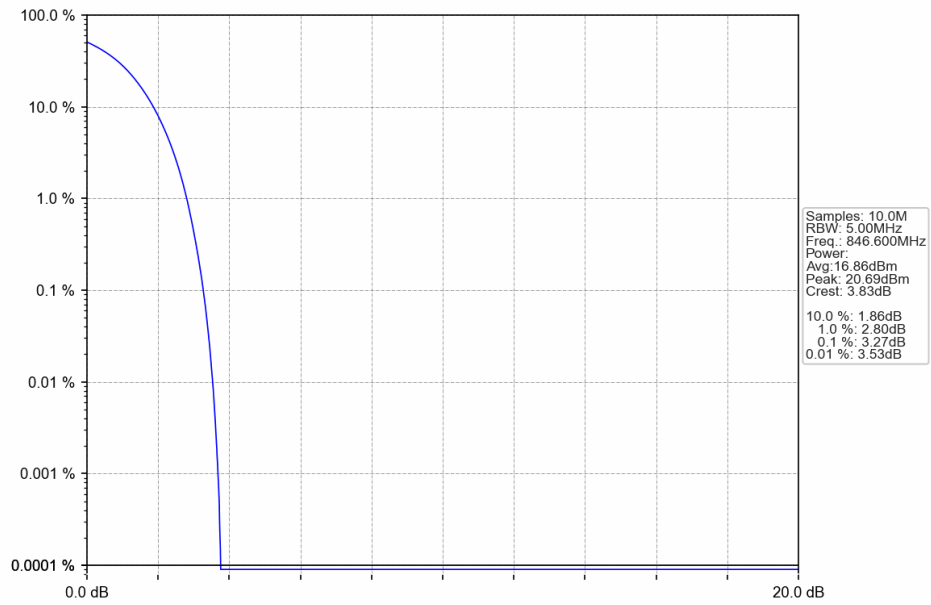
Band: V						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	3.06	<=13	Pass
			836.6	3.12	<=13	Pass
			846.6	3.27	<=13	Pass
	HSDPA	Subtest 1	826.4	5.80	<=13	Pass
			836.6	5.70	<=13	Pass
			846.6	6.38	<=13	Pass
	HSUPA	Subtest 1	826.4	6.90	<=13	Pass
			836.6	6.97	<=13	Pass
			846.6	7.12	<=13	Pass

4.2 Test Graph

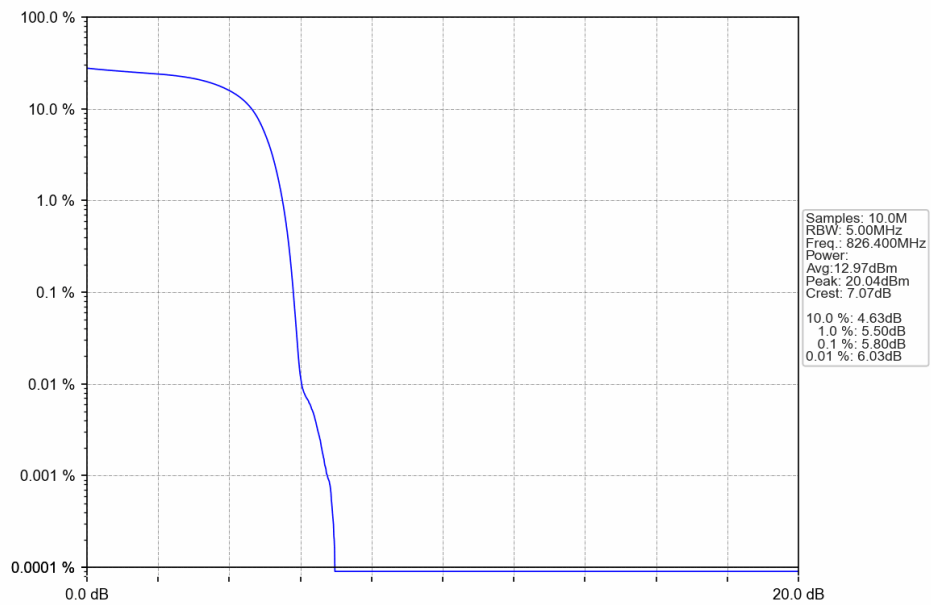
4.2.1 BandV



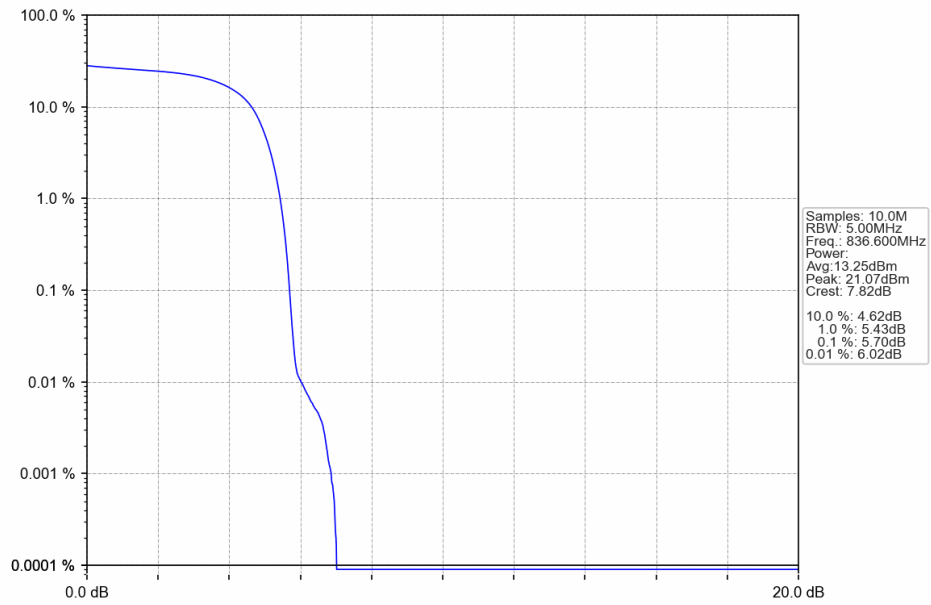
BandV RMC HCH 846.6MHz 12.2kbps RMC NTN



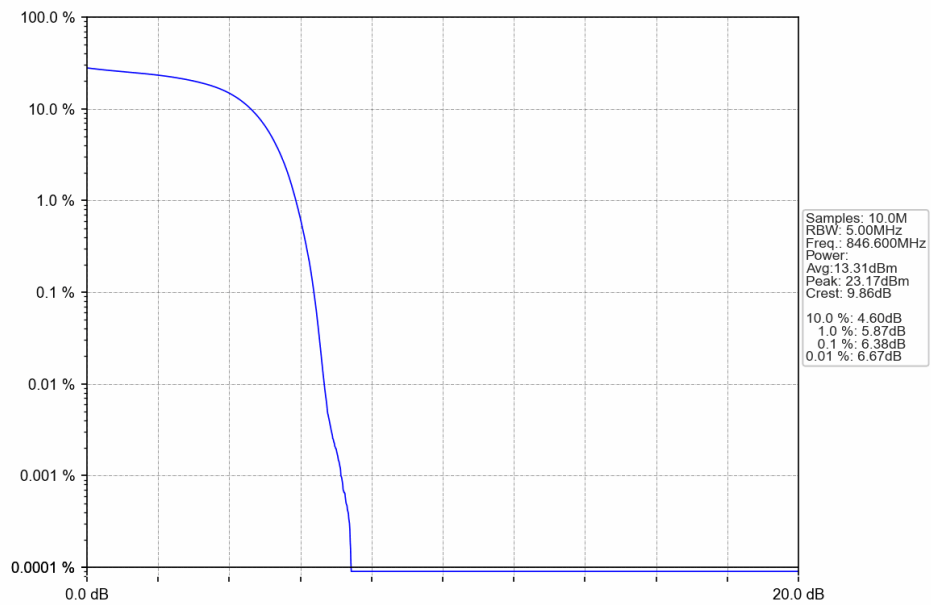
BandV HSDPA LCH 826.4MHz Subtest 1 NTN



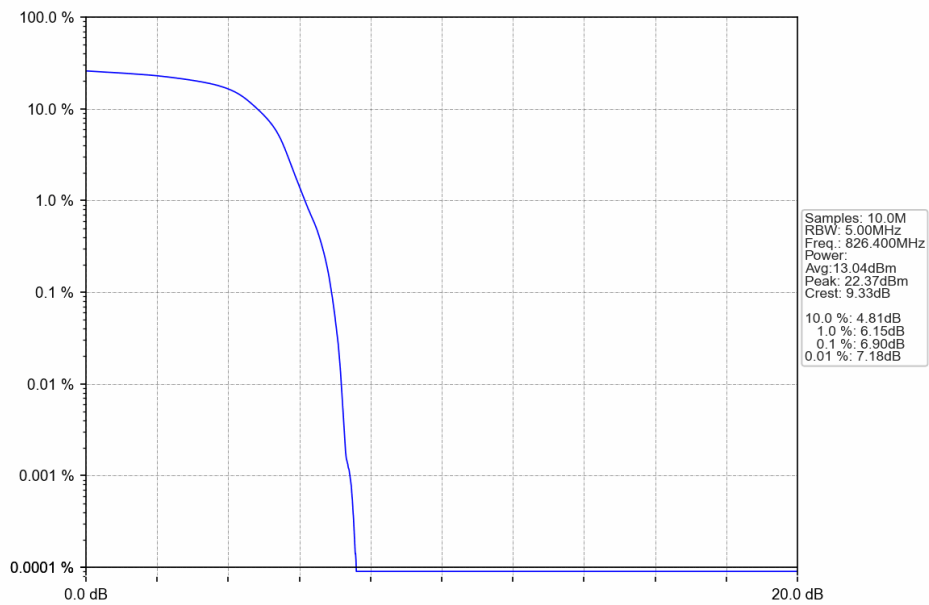
BandV HSDPA MCH 836.6MHz Subtest 1 NTN



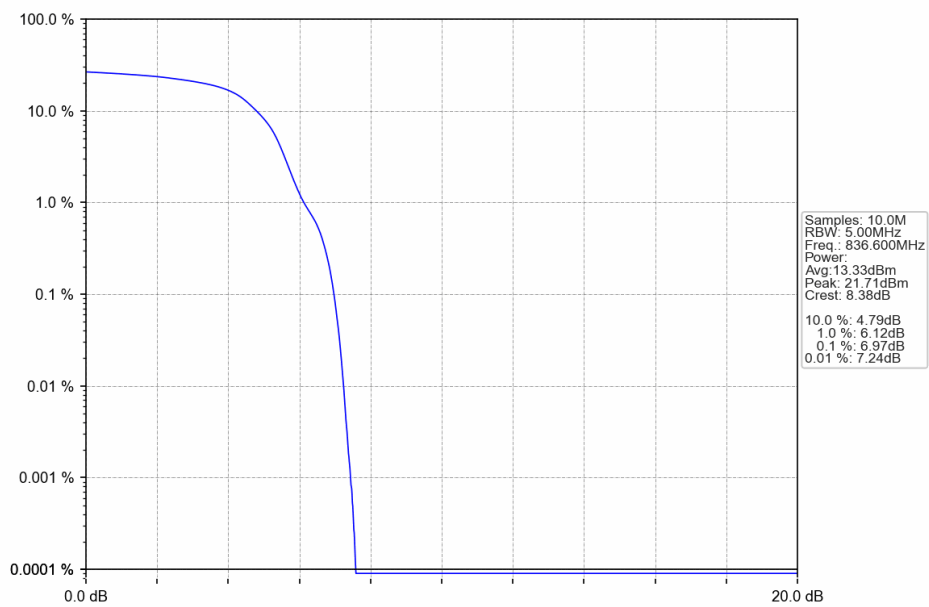
BandV HSDPA HCH 846.6MHz Subtest 1 NTN



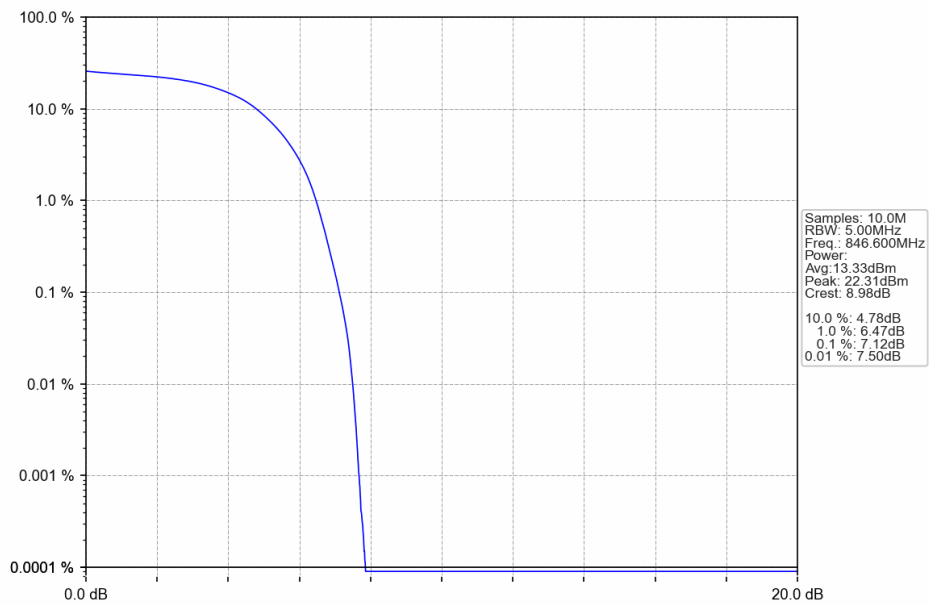
BandV HSUPA LCH 826.4MHz Subtest 1 NTN



BandV HSUPA MCH 836.6MHz Subtest 1 NTN



BandV HSUPA HCH 846.6MHz Subtest 1 NTN



5. Spurious Emission

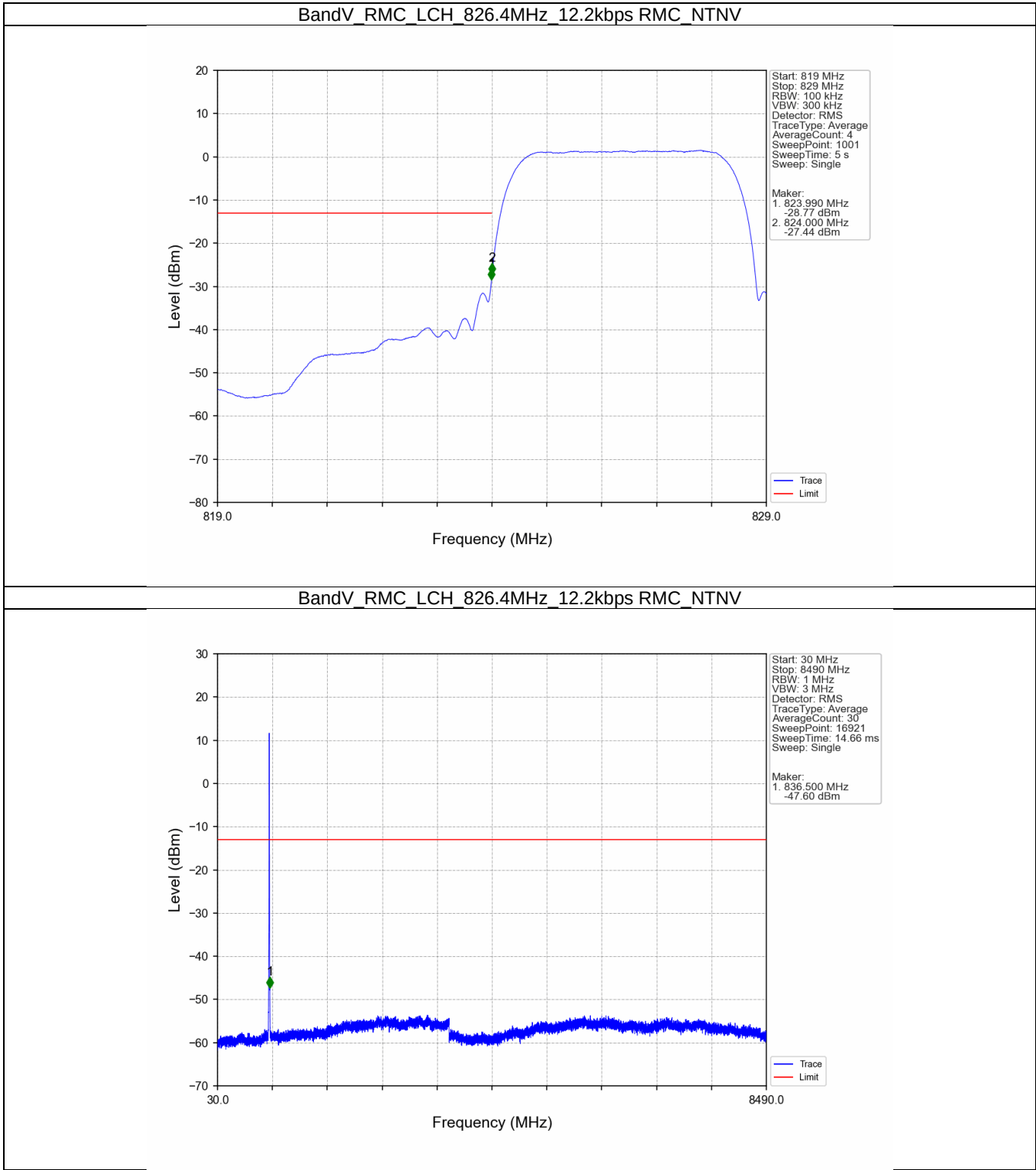
5.1 Test Result

5.1.1 BandV

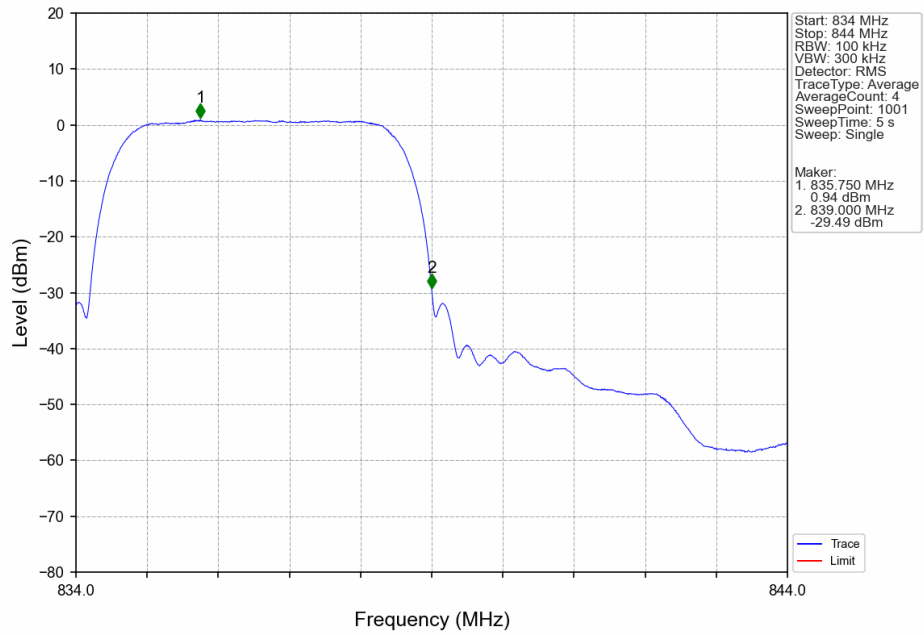
Band: V						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	RMC	12.2kbps RMC	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass	
			846.6	Refer To Test Graph	Pass	
	HSDPA	Subtest 1	826.4	Refer To Test Graph	Pass	
			836.6	Refer To Test Graph	Pass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

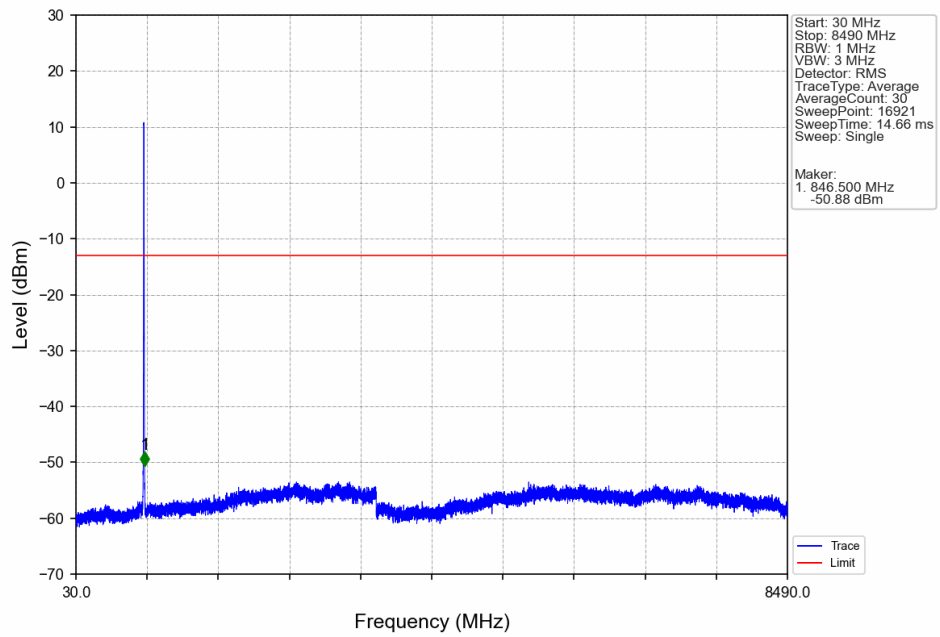
5.2.1 BandV



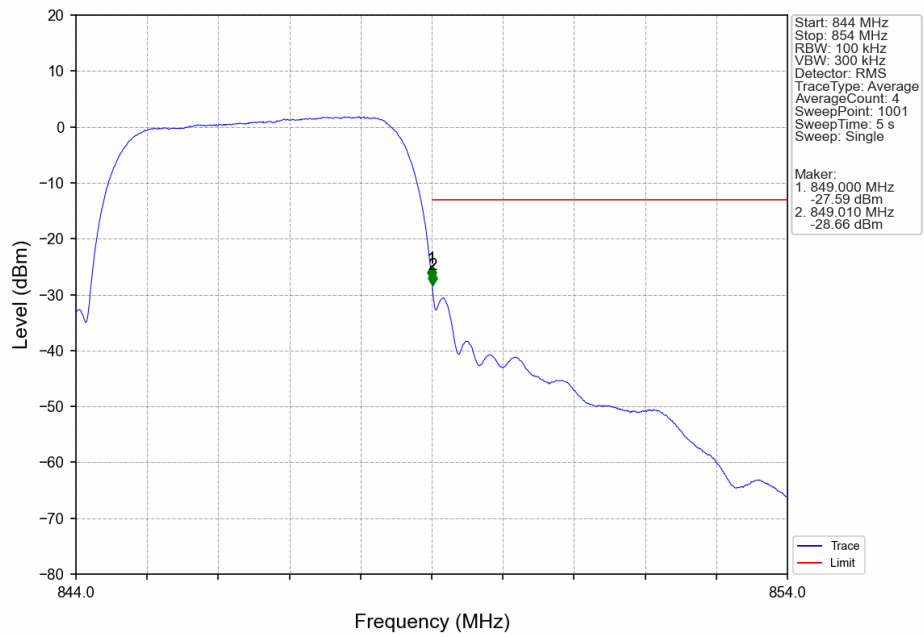
BandV RMC MCH 836.6MHz 12.2kbps RMC NTN



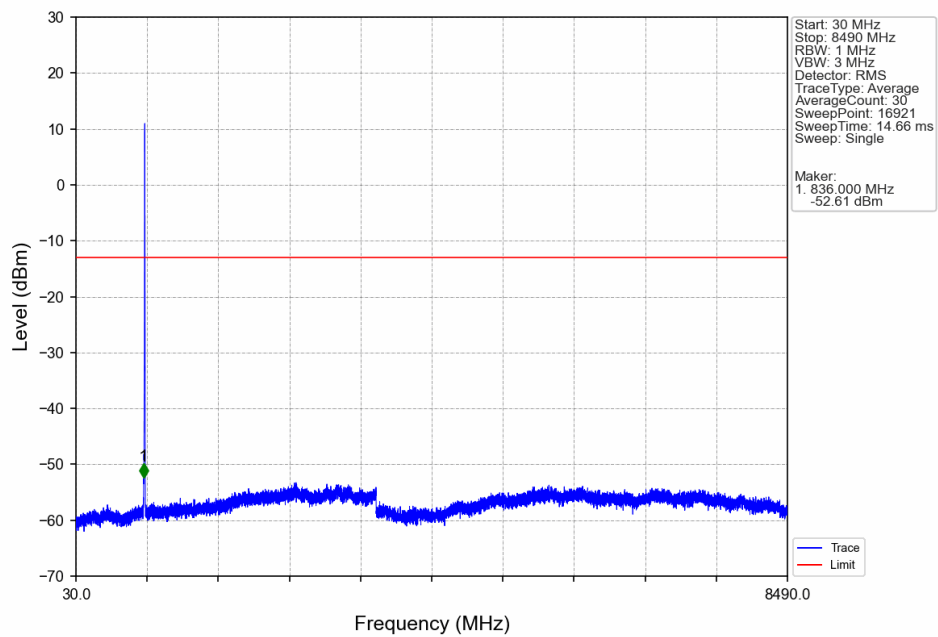
BandV RMC MCH 836.6MHz 12.2kbps RMC NTN



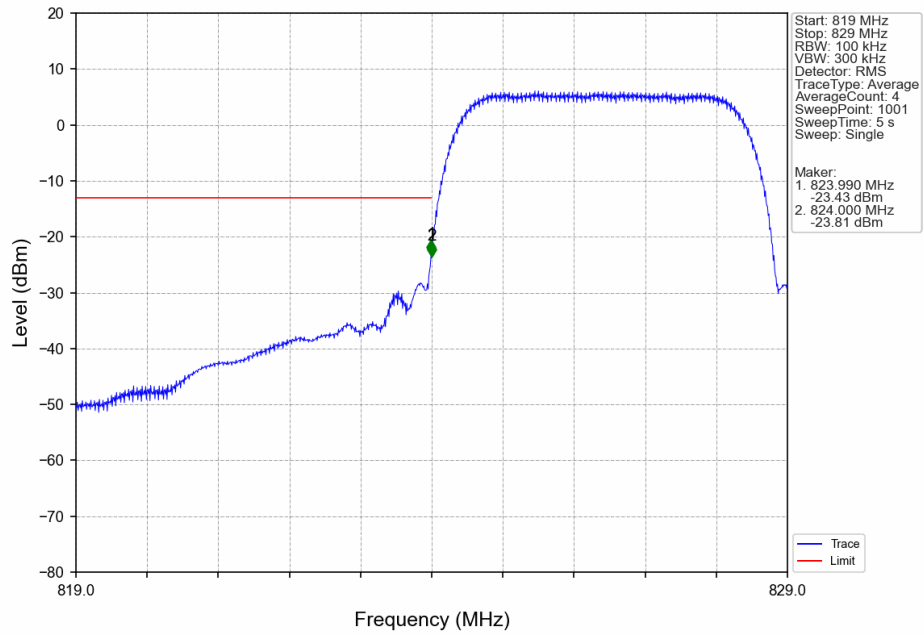
BandV RMC HCH 846.6MHz 12.2kbps RMC NTN



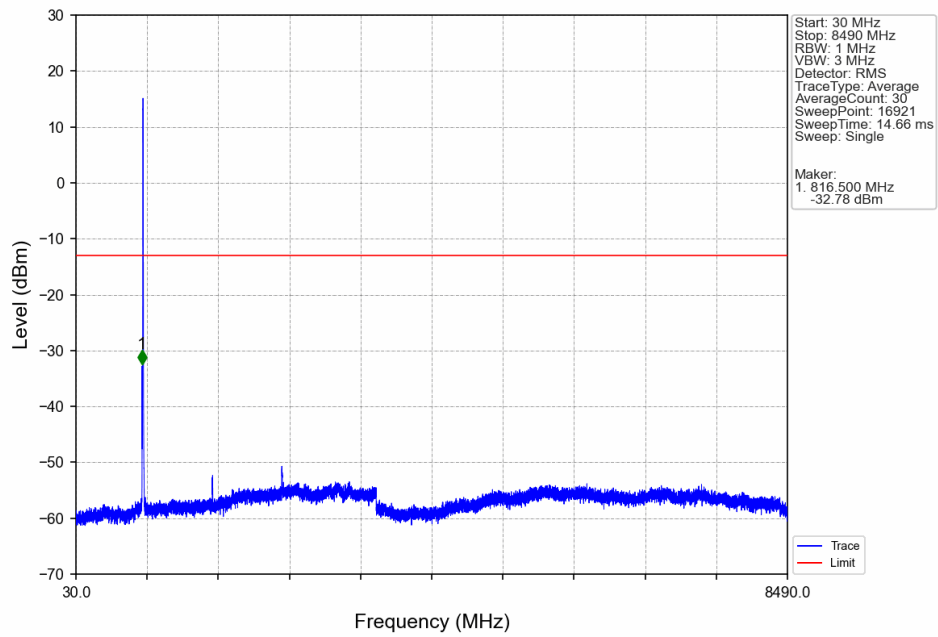
BandV RMC HCH 846.6MHz 12.2kbps RMC NTN



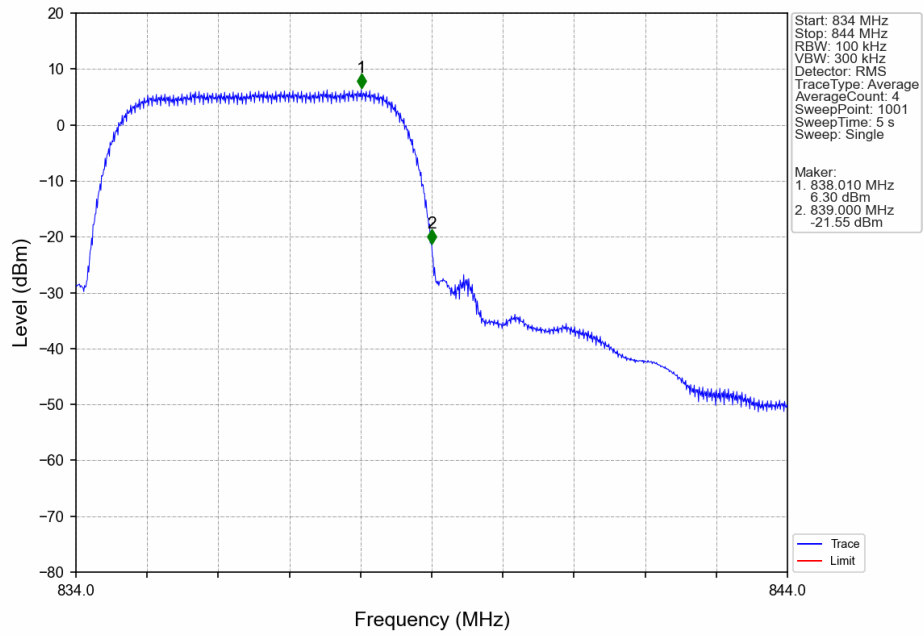
BandV HSDPA LCH 826.4MHz Subtest 1 NTN



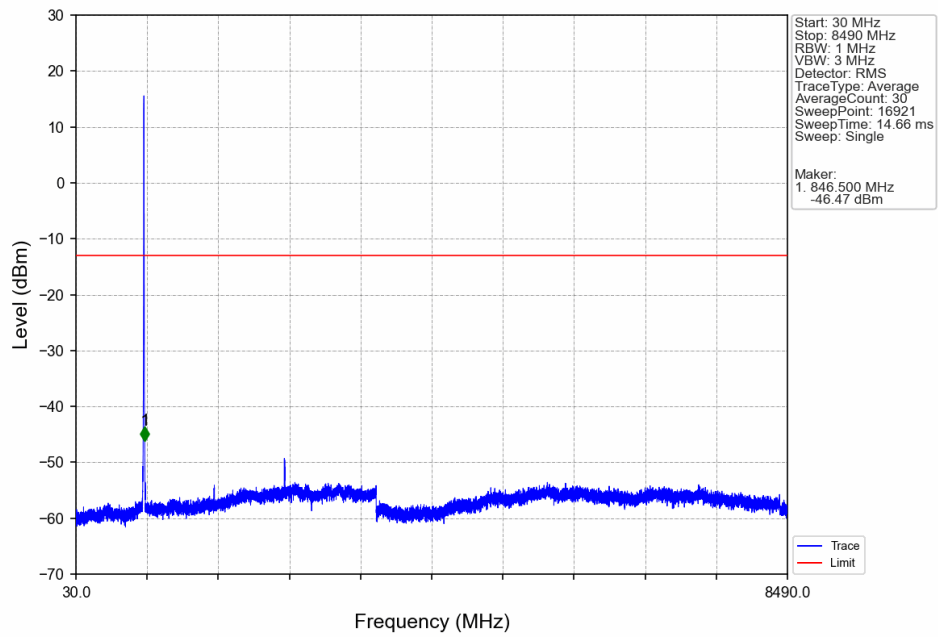
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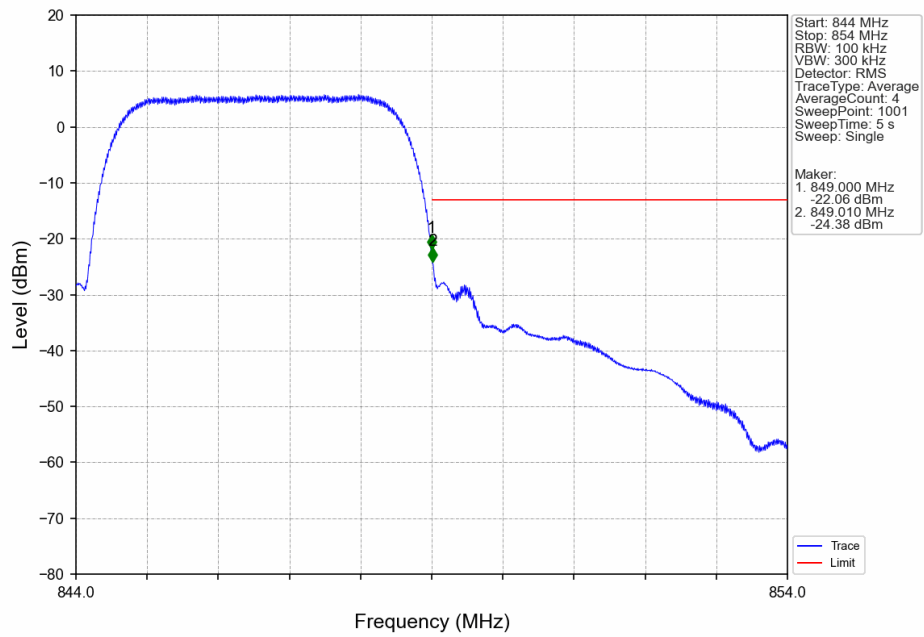
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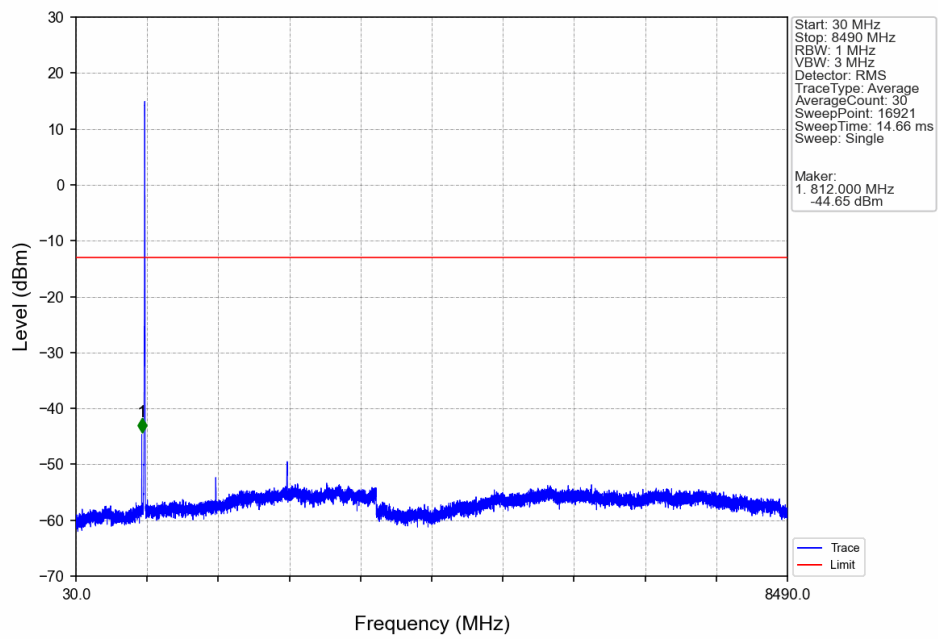
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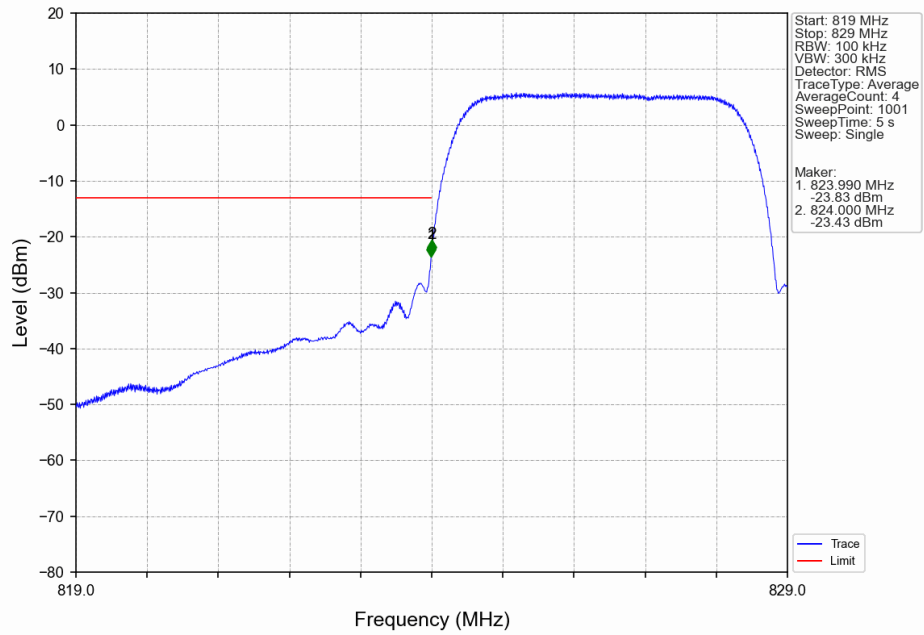
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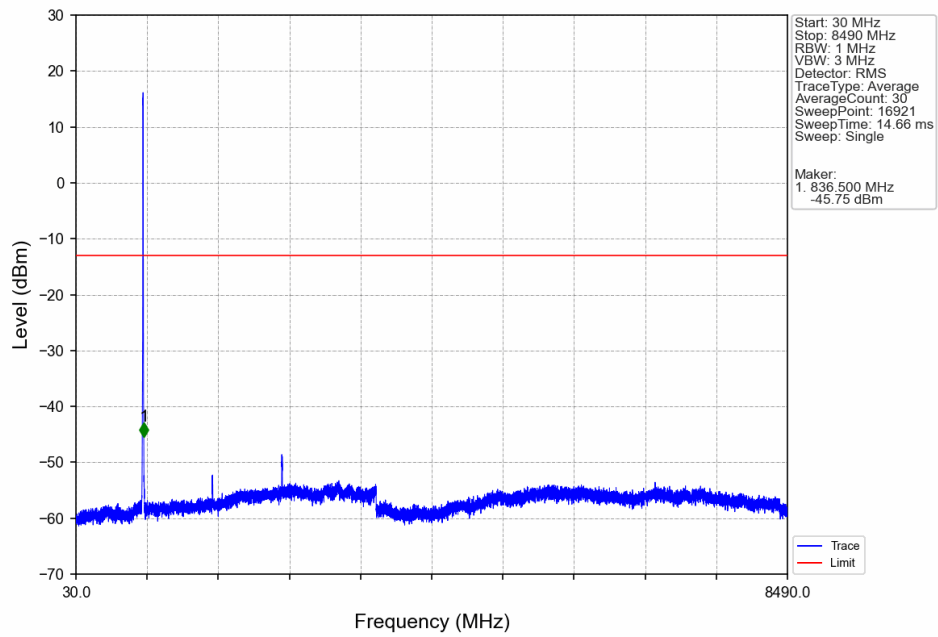
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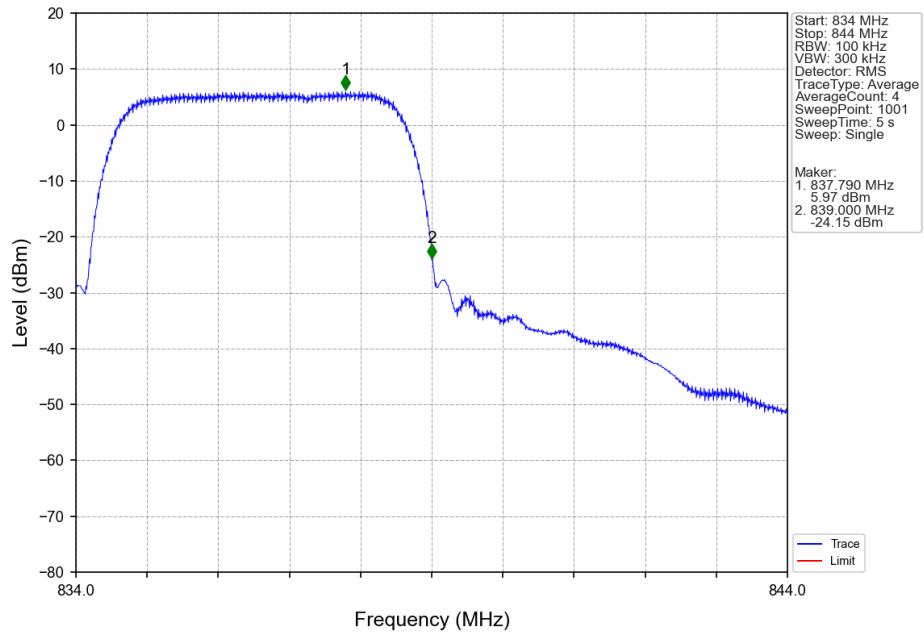
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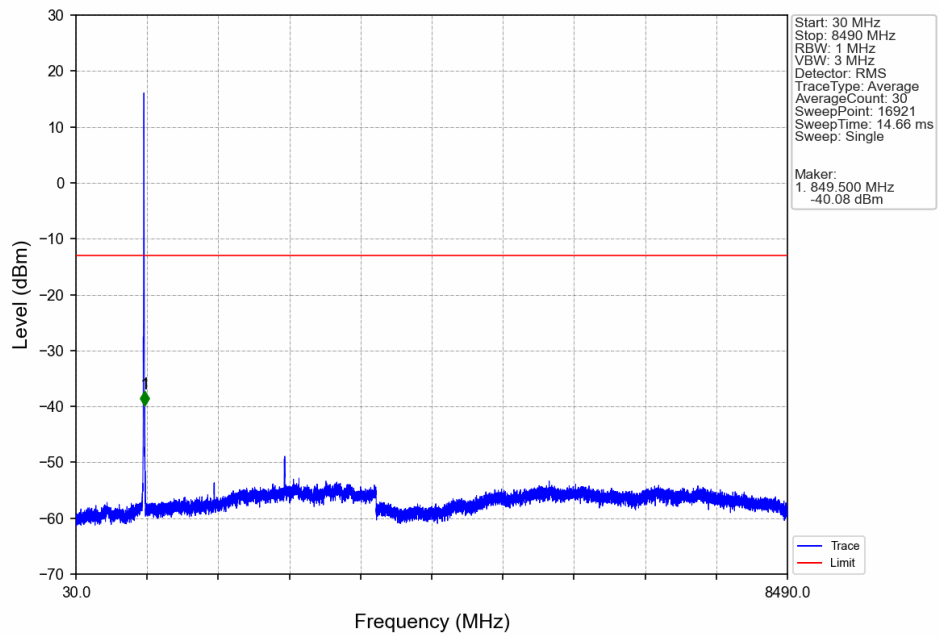
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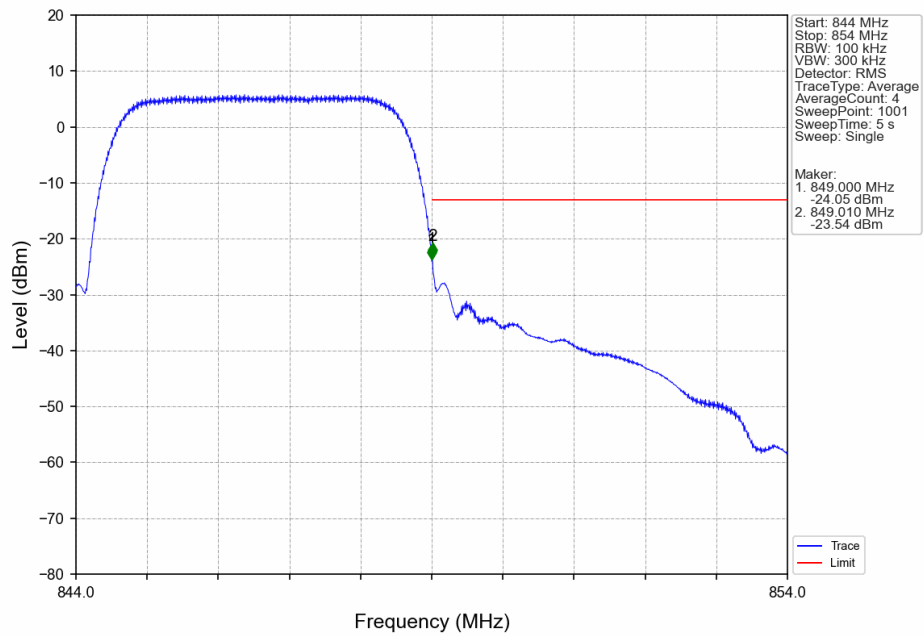
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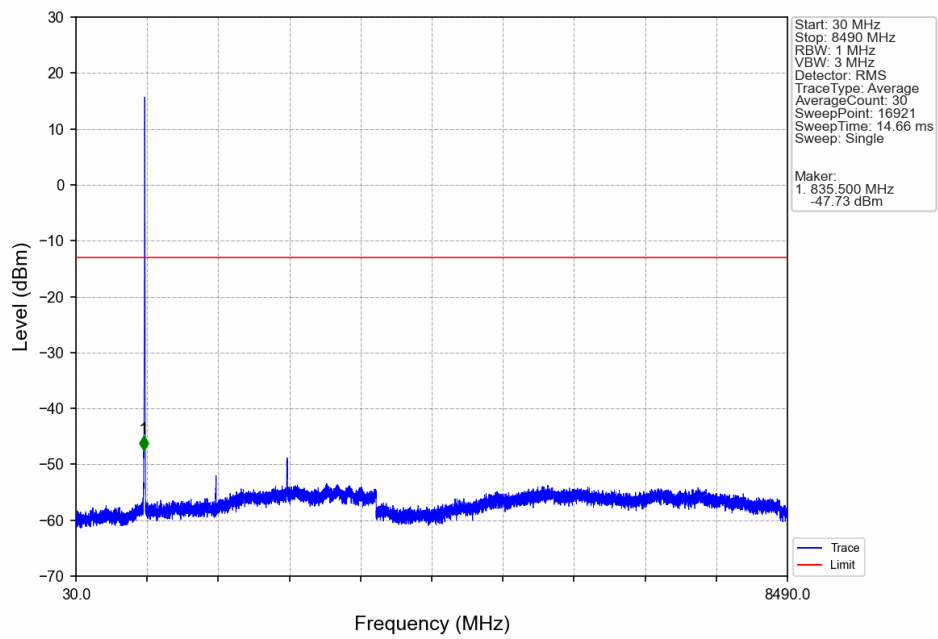
BandV HSUPA MCH 836.6MHz Subtest 1 NTN



BandV HSUPA HCH 846.6MHz Subtest 1 NTNV



BandV HSUPA HCH 846.6MHz Subtest 1 NTNV



6. Field Strength of Spurious Radiation

WCDMA Band V ANT1-Low channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1652.8	-63.63	-13	-50.63	-66.5	2.62	5.49	Horizontal	Pass
2479.2	-61.93	-13	-48.93	-64.63	3.07	5.77	Horizontal	Pass
3305.6	-61.99	-13	-48.99	-66.37	3.3	7.68	Horizontal	Pass
1652.8	-66.61	-13	-53.61	-69.48	2.62	5.49	Vertical	Pass
2479.2	-64.27	-13	-51.27	-66.97	3.07	5.77	Vertical	Pass
3305.6	-61.82	-13	-48.82	-66.2	3.3	7.68	Vertical	Pass

WCDMA Band V ANT1-Middle channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1672.8	-59.37	-13	-46.37	-62.18	2.63	5.44	Horizontal	Pass
2509.2	-64.41	-13	-51.41	-67.17	3.08	5.84	Horizontal	Pass
3345.6	-62.71	-13	-49.71	-67.17	3.32	7.78	Horizontal	Pass
1672.8	-65.69	-13	-52.69	-68.5	2.63	5.44	Vertical	Pass
2509.2	-63.81	-13	-50.81	-66.57	3.08	5.84	Vertical	Pass
3345.6	-61.98	-13	-48.98	-66.44	3.32	7.78	Vertical	Pass

WCDMA Band V ANT1-High channel								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1693.2	-65.75	-13	-52.75	-68.51	2.63	5.39	Horizontal	Pass
2539.8	-64.1	-13	-51.1	-66.92	3.09	5.91	Horizontal	Pass
3386.4	-61.68	-13	-48.68	-66.23	3.34	7.89	Horizontal	Pass
1693.2	-66.67	-13	-53.67	-69.43	2.63	5.39	Vertical	Pass
2539.8	-63.79	-13	-50.79	-66.61	3.09	5.91	Vertical	Pass
3386.4	-61.69	-13	-48.69	-66.24	3.34	7.89	Vertical	Pass