

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 GSM850_ERP

Band: GSM850									
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
	Network	Subset				Result	Limit		
NTNV	GSM	GSM	824.2	32.02	-3.80	26.07	<=38.45	Pass	
			836.6	31.88	-3.80	25.93	<=38.45	Pass	
			848.8	31.97	-3.80	26.02	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	31.86	-3.80	25.91	<=38.45	Pass	
		2 TX Slots	824.2	31.30	-3.80	25.35	<=38.45	Pass	
		3 TX Slots	824.2	29.92	-3.80	23.97	<=38.45	Pass	
		4 TX Slots	824.2	28.66	-3.80	22.71	<=38.45	Pass	
		1 TX Slot	836.6	31.59	-3.80	25.64	<=38.45	Pass	
		2 TX Slots	836.6	31.08	-3.80	25.13	<=38.45	Pass	
		3 TX Slots	836.6	29.60	-3.80	23.65	<=38.45	Pass	
		4 TX Slots	836.6	28.31	-3.80	22.36	<=38.45	Pass	
		1 TX Slot	848.8	31.67	-3.80	25.72	<=38.45	Pass	
		2 TX Slots	848.8	31.18	-3.80	25.23	<=38.45	Pass	
		3 TX Slots	848.8	29.71	-3.80	23.76	<=38.45	Pass	
		4 TX Slots	848.8	28.43	-3.80	22.48	<=38.45	Pass	
		EGPRS	1 TX Slot	824.2	27.49	-3.80	21.54	<=38.45	Pass
			2 TX Slots	824.2	26.49	-3.80	20.54	<=38.45	Pass
			3 TX Slots	824.2	24.95	-3.80	19.00	<=38.45	Pass
			4 TX Slots	824.2	23.47	-3.80	17.52	<=38.45	Pass
			1 TX Slot	836.6	27.31	-3.80	21.36	<=38.45	Pass
			2 TX Slots	836.6	26.38	-3.80	20.43	<=38.45	Pass
			3 TX Slots	836.6	24.73	-3.80	18.78	<=38.45	Pass
			4 TX Slots	836.6	23.44	-3.80	17.49	<=38.45	Pass
	1 TX Slot		848.8	27.03	-3.80	21.08	<=38.45	Pass	
	2 TX Slots		848.8	25.93	-3.80	19.98	<=38.45	Pass	
	3 TX Slots		848.8	24.32	-3.80	18.37	<=38.45	Pass	
	4 TX Slots		848.8	23.14	-3.80	17.19	<=38.45	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 Test Result

2.1.1 GSM850

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GSM	824.2	20	3.60	-17.414	-0.0211	-2.5 to 2.5	Pass
			3.91	-5.238	-0.0064	-2.5 to 2.5	Pass
			4.50	2.633	0.0032	-2.5 to 2.5	Pass
		-30	3.91	2.342	0.0028	-2.5 to 2.5	Pass
		-20	3.91	1.095	0.0013	-2.5 to 2.5	Pass
		-10	3.91	-0.501	-0.0006	-2.5 to 2.5	Pass
		0	3.91	-4.216	-0.0051	-2.5 to 2.5	Pass
		10	3.91	1.010	0.0012	-2.5 to 2.5	Pass

		30	3.91	2.320	0.0028	-2.5 to 2.5	Pass
		40	3.91	0.129	0.0002	-2.5 to 2.5	Pass
		50	3.91	0.034	0.0000	-2.5 to 2.5	Pass
	836.6	20	3.60	-0.603	-0.0007	-2.5 to 2.5	Pass
			3.91	-3.875	-0.0046	-2.5 to 2.5	Pass
			4.50	-1.617	-0.0019	-2.5 to 2.5	Pass
		-30	3.91	0.637	0.0008	-2.5 to 2.5	Pass
		-20	3.91	-0.509	-0.0006	-2.5 to 2.5	Pass
		-10	3.91	-2.594	-0.0031	-2.5 to 2.5	Pass
		0	3.91	-4.713	-0.0056	-2.5 to 2.5	Pass
		10	3.91	4.719	0.0056	-2.5 to 2.5	Pass
		30	3.91	-1.950	-0.0023	-2.5 to 2.5	Pass
		40	3.91	5.104	0.0061	-2.5 to 2.5	Pass
		50	3.91	7.682	0.0092	-2.5 to 2.5	Pass
	848.8	20	3.60	1.623	0.0019	-2.5 to 2.5	Pass
			3.91	-0.863	-0.0010	-2.5 to 2.5	Pass
			4.50	4.244	0.0050	-2.5 to 2.5	Pass
		-30	3.91	-3.795	-0.0045	-2.5 to 2.5	Pass
		-20	3.91	-2.627	-0.0031	-2.5 to 2.5	Pass
		-10	3.91	1.483	0.0017	-2.5 to 2.5	Pass
		0	3.91	-0.737	-0.0009	-2.5 to 2.5	Pass
		10	3.91	3.985	0.0047	-2.5 to 2.5	Pass
		30	3.91	-2.040	-0.0024	-2.5 to 2.5	Pass
		40	3.91	0.252	0.0003	-2.5 to 2.5	Pass
		50	3.91	0.591	0.0007	-2.5 to 2.5	Pass
GPRS	824.2	20	3.60	-8.305	-0.0101	-2.5 to 2.5	Pass
			3.91	-4.163	-0.0051	-2.5 to 2.5	Pass
			4.50	0.947	0.0011	-2.5 to 2.5	Pass
		-30	3.91	-0.013	0.0000	-2.5 to 2.5	Pass
		-20	3.91	-6.733	-0.0082	-2.5 to 2.5	Pass
		-10	3.91	-1.417	-0.0017	-2.5 to 2.5	Pass
		0	3.91	-3.082	-0.0037	-2.5 to 2.5	Pass
		10	3.91	-1.748	-0.0021	-2.5 to 2.5	Pass
		30	3.91	-1.872	-0.0023	-2.5 to 2.5	Pass
		40	3.91	-1.361	-0.0017	-2.5 to 2.5	Pass
		50	3.91	10.214	0.0124	-2.5 to 2.5	Pass
	836.6	20	3.60	-6.988	-0.0084	-2.5 to 2.5	Pass
			3.91	-0.631	-0.0008	-2.5 to 2.5	Pass
			4.50	-0.164	-0.0002	-2.5 to 2.5	Pass
		-30	3.91	-10.465	-0.0125	-2.5 to 2.5	Pass
		-20	3.91	-4.798	-0.0057	-2.5 to 2.5	Pass
		-10	3.91	-1.951	-0.0023	-2.5 to 2.5	Pass
		0	3.91	1.141	0.0014	-2.5 to 2.5	Pass
		10	3.91	2.866	0.0034	-2.5 to 2.5	Pass
		30	3.91	0.603	0.0007	-2.5 to 2.5	Pass
		40	3.91	2.430	0.0029	-2.5 to 2.5	Pass
		50	3.91	7.789	0.0093	-2.5 to 2.5	Pass
	848.8	20	3.60	-0.958	-0.0011	-2.5 to 2.5	Pass
			3.91	-0.358	-0.0004	-2.5 to 2.5	Pass
			4.50	-1.743	-0.0021	-2.5 to 2.5	Pass
		-30	3.91	-3.547	-0.0042	-2.5 to 2.5	Pass
		-20	3.91	-1.203	-0.0014	-2.5 to 2.5	Pass
		-10	3.91	0.130	0.0002	-2.5 to 2.5	Pass
		0	3.91	-0.368	-0.0004	-2.5 to 2.5	Pass
		10	3.91	-1.158	-0.0014	-2.5 to 2.5	Pass
		30	3.91	-0.569	-0.0007	-2.5 to 2.5	Pass
		40	3.91	-1.842	-0.0022	-2.5 to 2.5	Pass
		50	3.91	-0.395	-0.0005	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.60	-0.007	0.0000	-2.5 to 2.5	Pass

			3.91	-1.613	-0.0020	-2.5 to 2.5	Pass
			4.50	-1.916	-0.0023	-2.5 to 2.5	Pass
		-30	3.91	-3.452	-0.0042	-2.5 to 2.5	Pass
		-20	3.91	-1.995	-0.0024	-2.5 to 2.5	Pass
		-10	3.91	-1.757	-0.0021	-2.5 to 2.5	Pass
		0	3.91	2.042	0.0025	-2.5 to 2.5	Pass
		10	3.91	-2.638	-0.0032	-2.5 to 2.5	Pass
		30	3.91	-1.684	-0.0020	-2.5 to 2.5	Pass
		40	3.91	0.042	0.0001	-2.5 to 2.5	Pass
		50	3.91	0.400	0.0005	-2.5 to 2.5	Pass
	836.6	20	3.60	0.481	0.0006	-2.5 to 2.5	Pass
			3.91	0.219	0.0003	-2.5 to 2.5	Pass
			4.50	-1.465	-0.0018	-2.5 to 2.5	Pass
		-30	3.91	-2.671	-0.0032	-2.5 to 2.5	Pass
		-20	3.91	-1.086	-0.0013	-2.5 to 2.5	Pass
		-10	3.91	-2.676	-0.0032	-2.5 to 2.5	Pass
		0	3.91	-1.871	-0.0022	-2.5 to 2.5	Pass
		10	3.91	-2.021	-0.0024	-2.5 to 2.5	Pass
		30	3.91	-1.799	-0.0022	-2.5 to 2.5	Pass
		40	3.91	0.467	0.0006	-2.5 to 2.5	Pass
		50	3.91	-3.694	-0.0044	-2.5 to 2.5	Pass
	848.8	20	3.60	0.637	0.0008	-2.5 to 2.5	Pass
			3.91	1.034	0.0012	-2.5 to 2.5	Pass
			4.50	-1.336	-0.0016	-2.5 to 2.5	Pass
		-30	3.91	-0.432	-0.0005	-2.5 to 2.5	Pass
		-20	3.91	-2.104	-0.0025	-2.5 to 2.5	Pass
		-10	3.91	-2.977	-0.0035	-2.5 to 2.5	Pass
		0	3.91	-2.439	-0.0029	-2.5 to 2.5	Pass
		10	3.91	-4.476	-0.0053	-2.5 to 2.5	Pass
		30	3.91	1.025	0.0012	-2.5 to 2.5	Pass
		40	3.91	-1.386	-0.0016	-2.5 to 2.5	Pass
		50	3.91	1.781	0.0021	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.247	/	Pass
			836.6	0.245	/	Pass
			848.8	0.241	/	Pass
	GPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.240	/	Pass
			848.8	0.243	/	Pass
	EGPRS	1 TX Slot	824.2	0.256	/	Pass
			836.6	0.245	/	Pass
			848.8	0.254	/	Pass

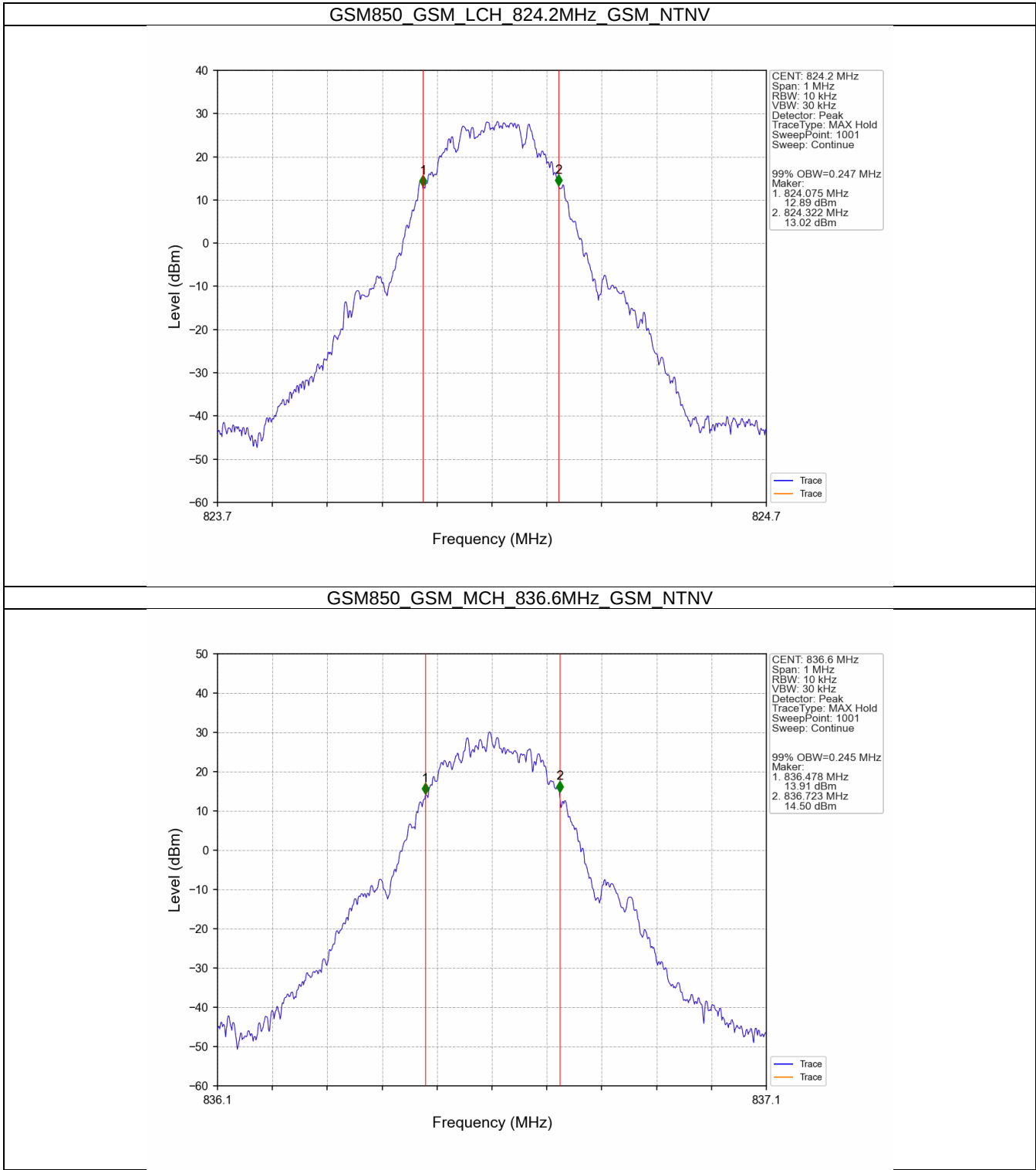
3.1.2 GSM850_XDB

Band: GSM850

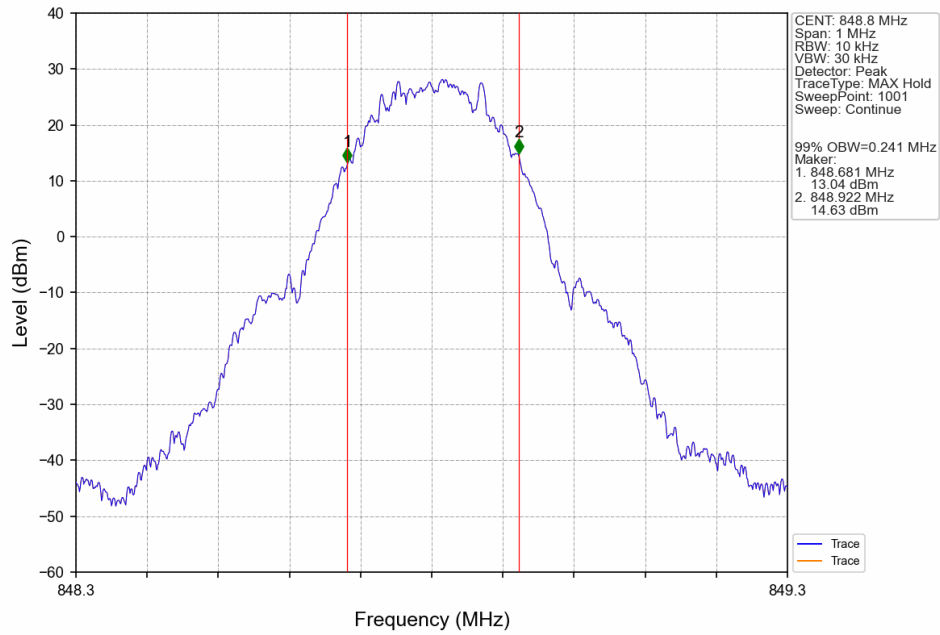
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.316	/	Pass
			836.6	0.310	/	Pass
			848.8	0.316	/	Pass
	GPRS	1 TX Slot	824.2	0.321	/	Pass
			836.6	0.312	/	Pass
			848.8	0.318	/	Pass
	EGPRS	1 TX Slot	824.2	0.332	/	Pass
			836.6	0.309	/	Pass
			848.8	0.318	/	Pass

3.2 Test Graph

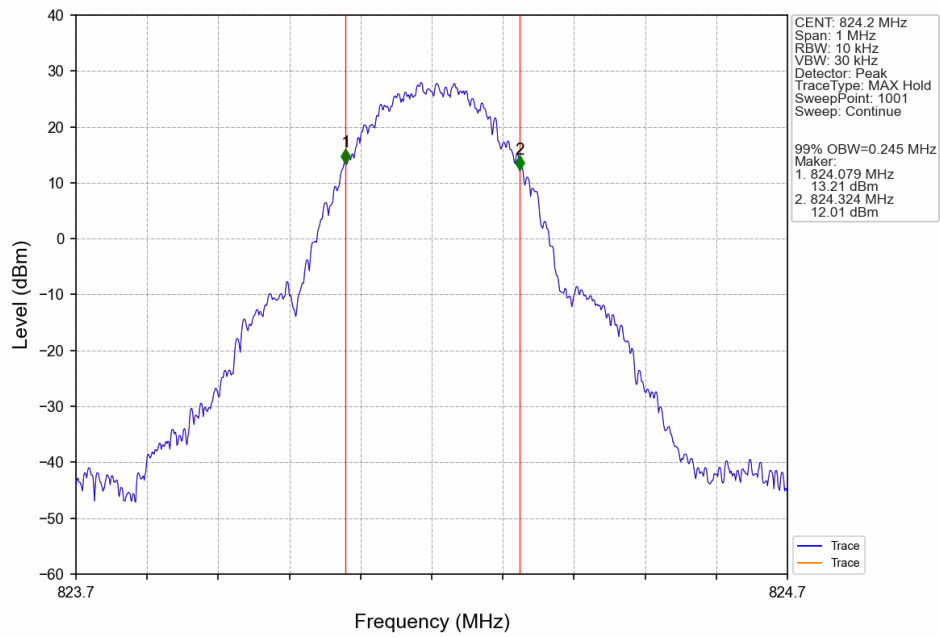
3.2.1 GSM850_OBW



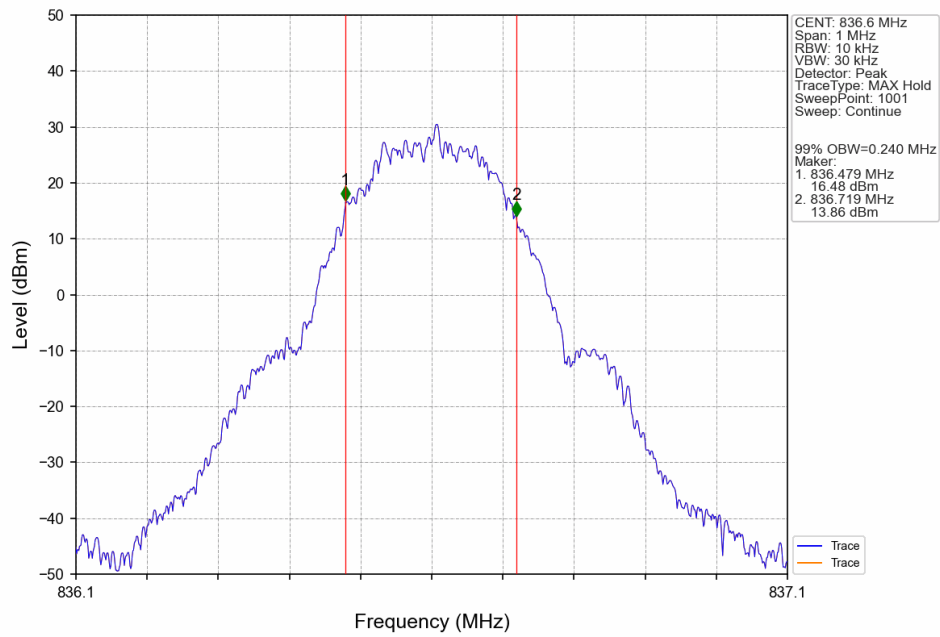
GSM850 GSM HCH 848.8MHz GSM NTNV



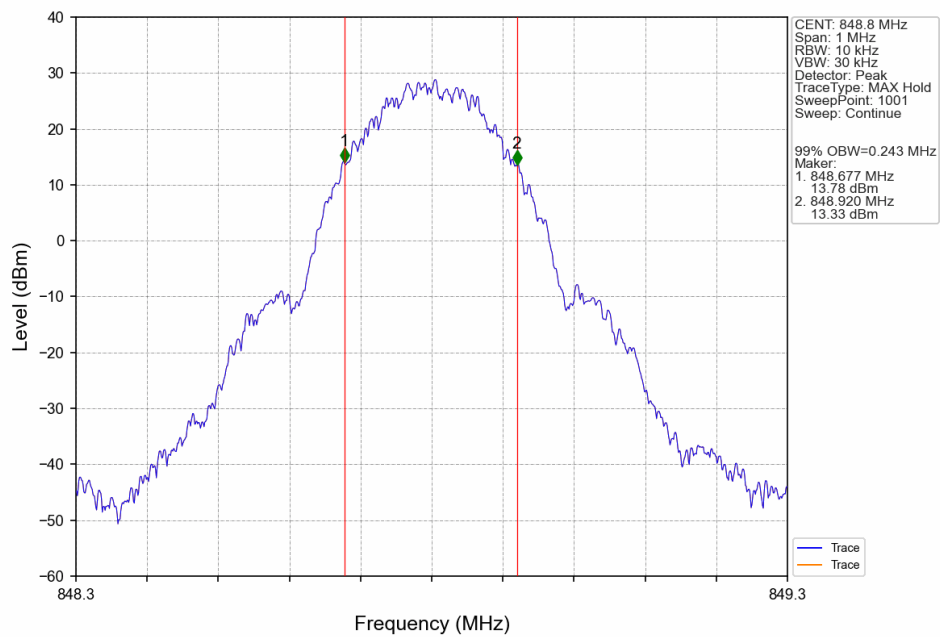
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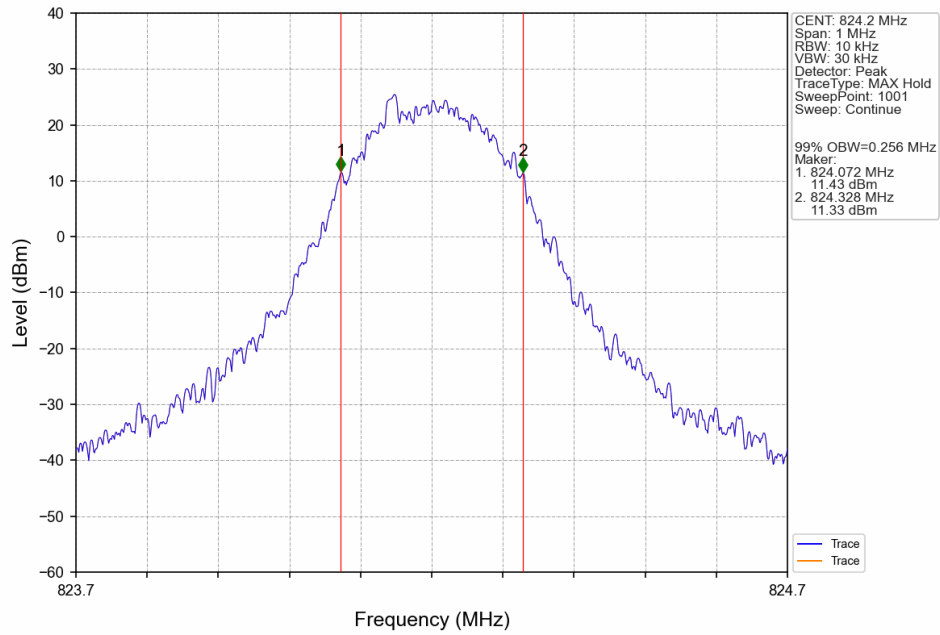
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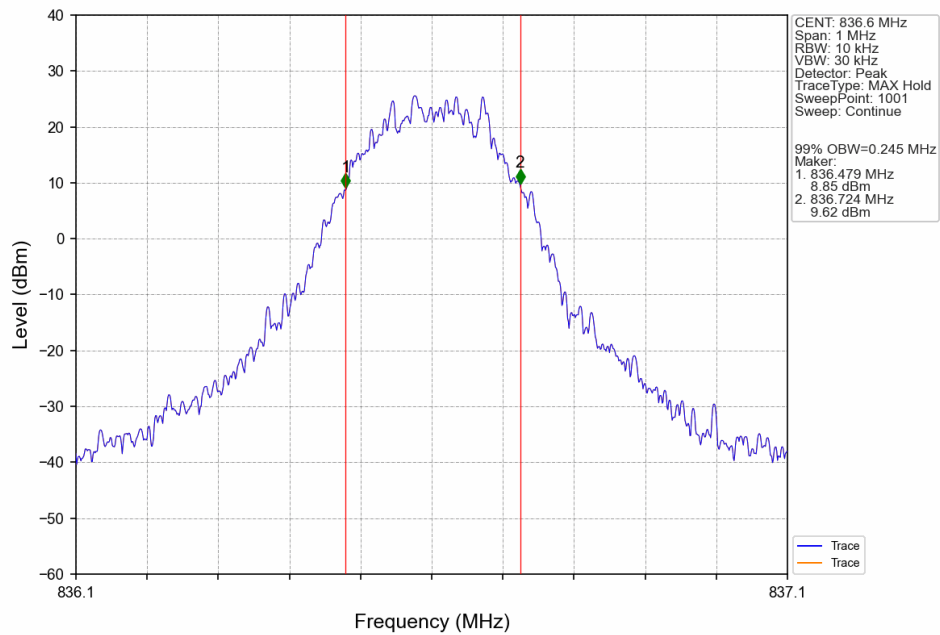
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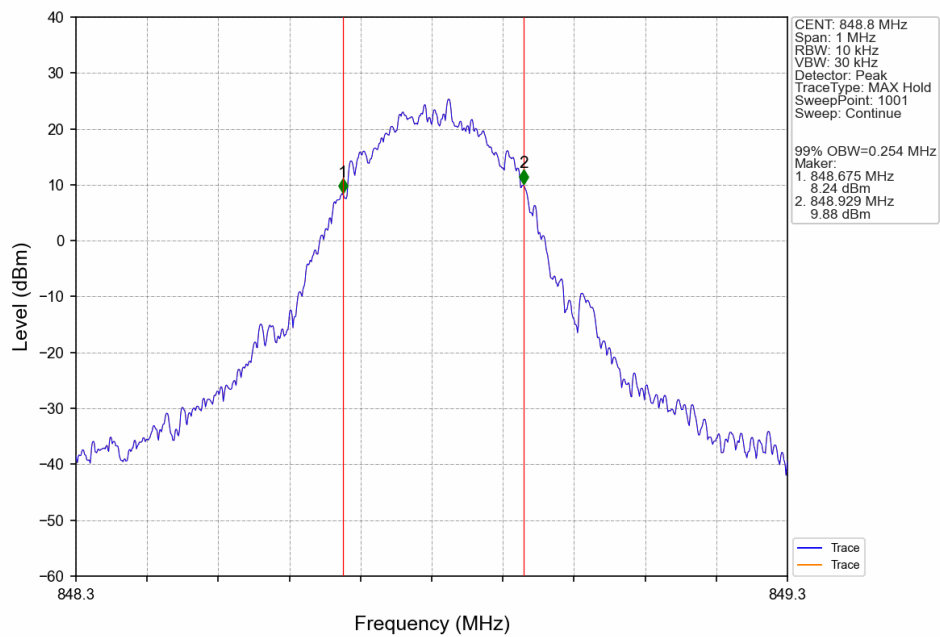
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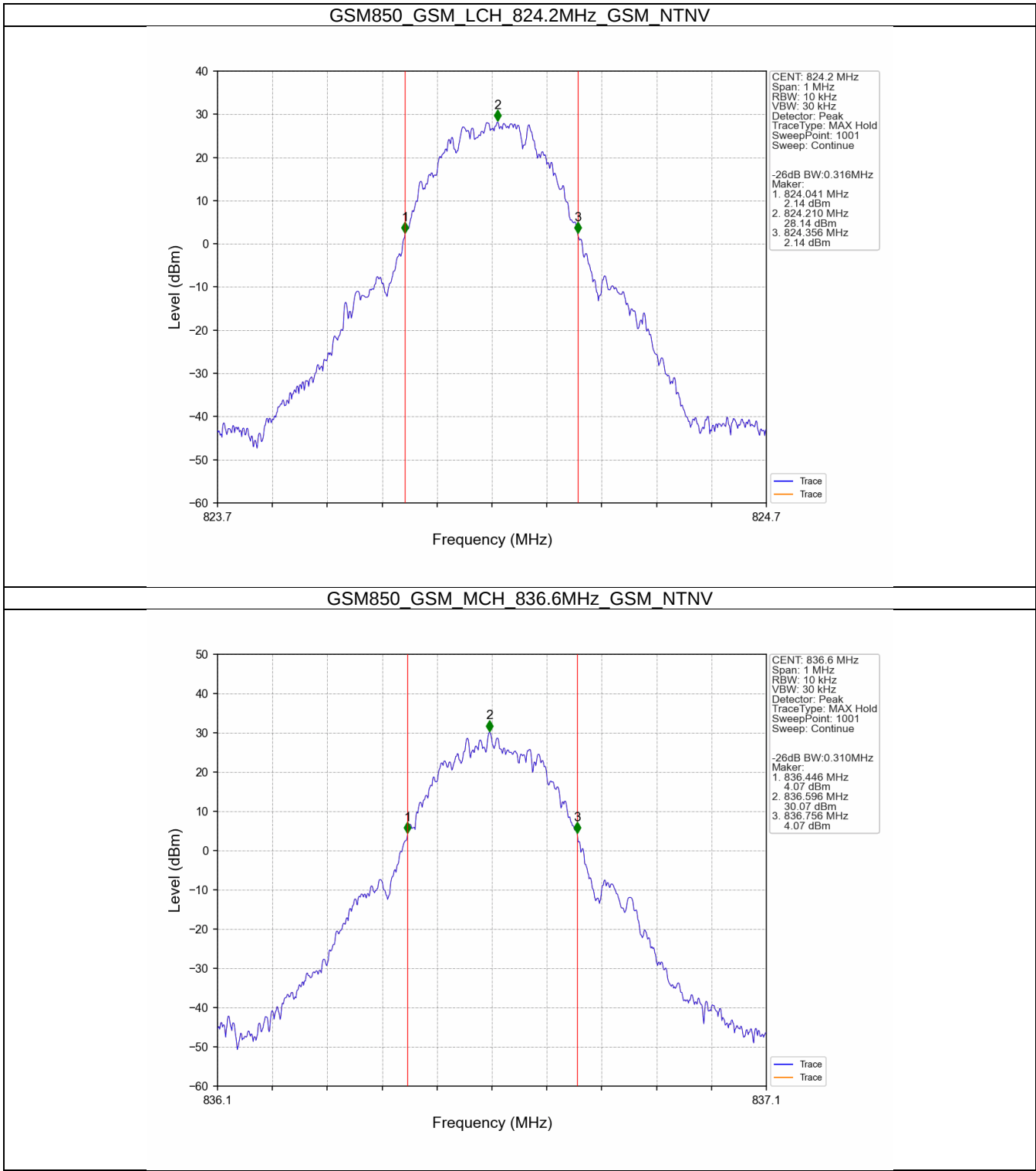
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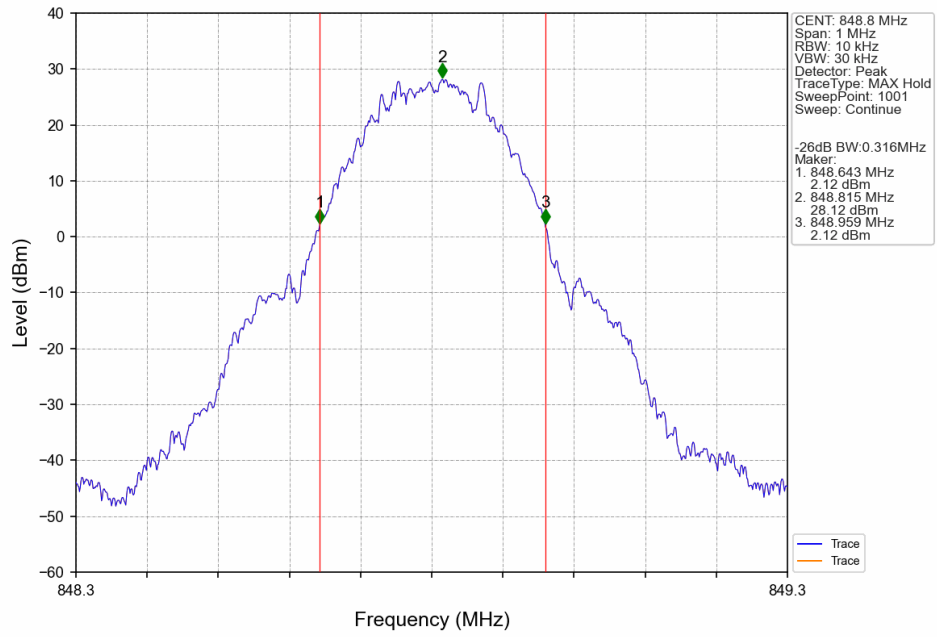
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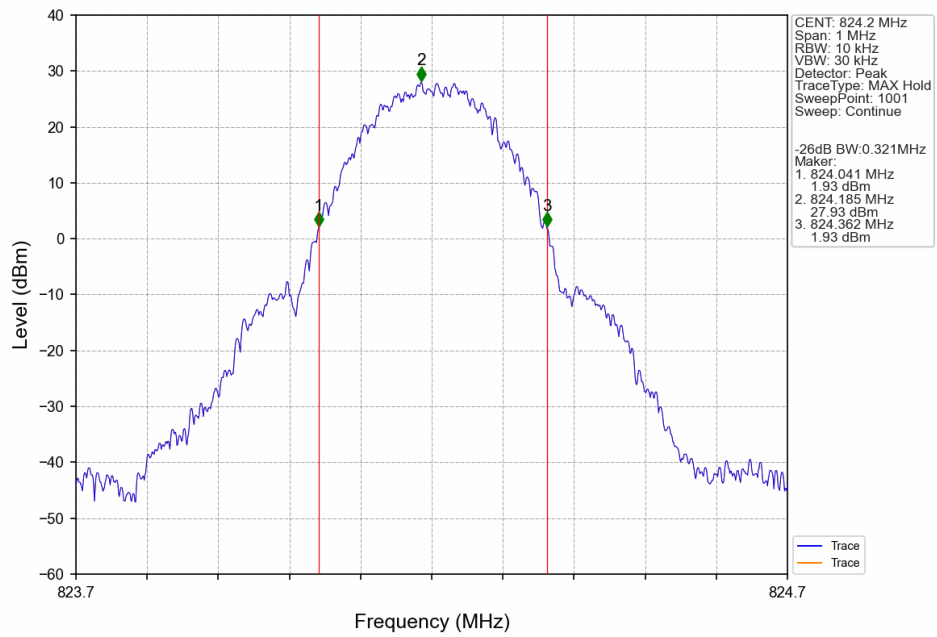
3.2.2 GSM850_XDB



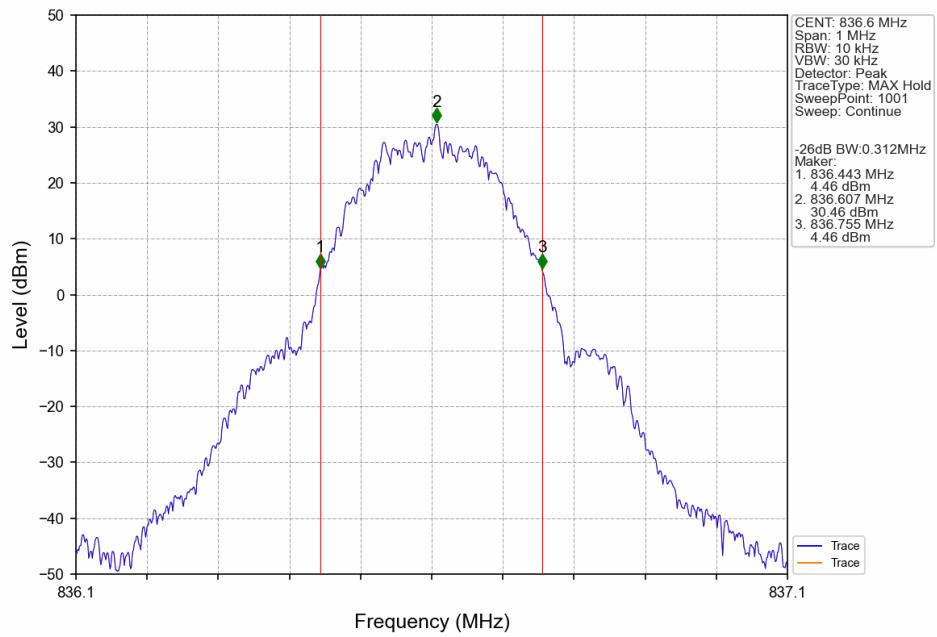
GSM850 GSM HCH 848.8MHz GSM NTNV



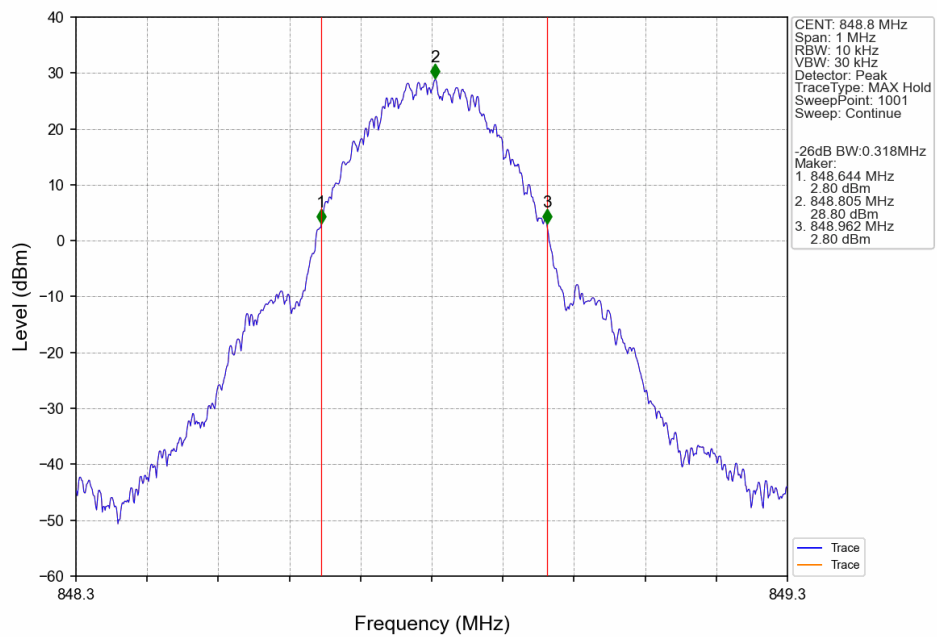
GSM850 GPRS LCH 824.2MHz 1 TX Slot NTNV



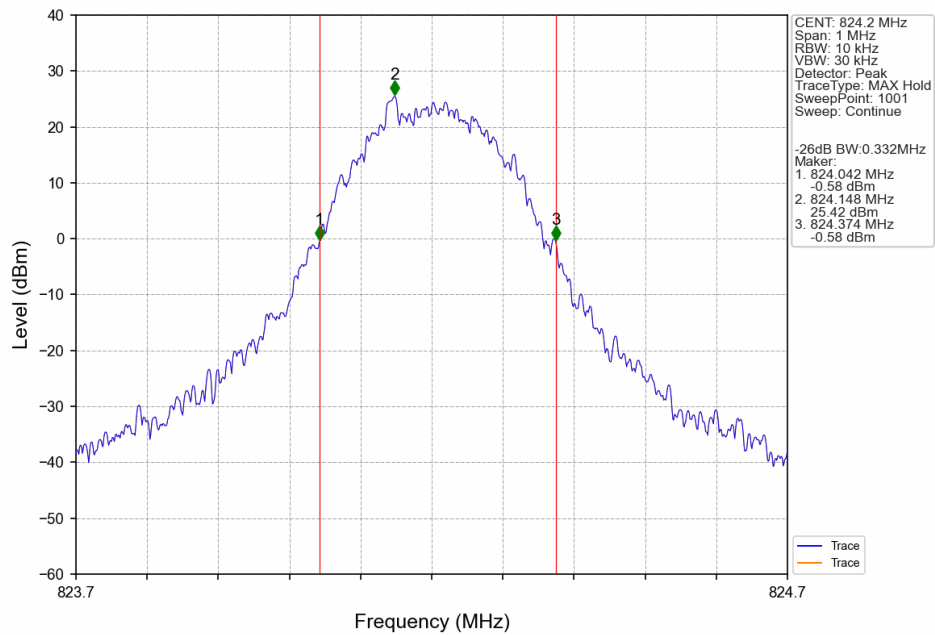
GSM850 GPRS MCH 836.6MHz 1 TX Slot NTN



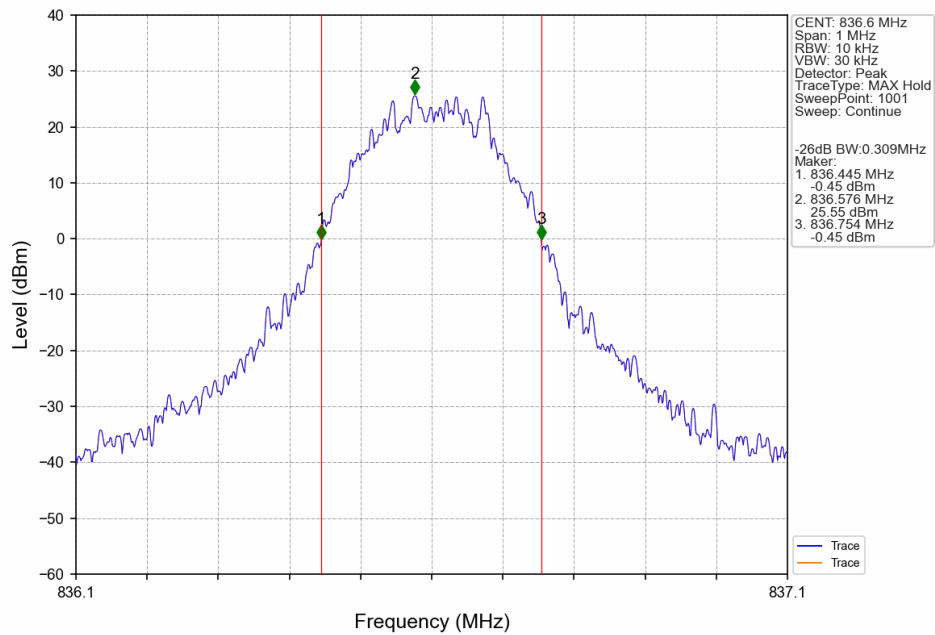
GSM850 GPRS HCH 848.8MHz 1 TX Slot NTN



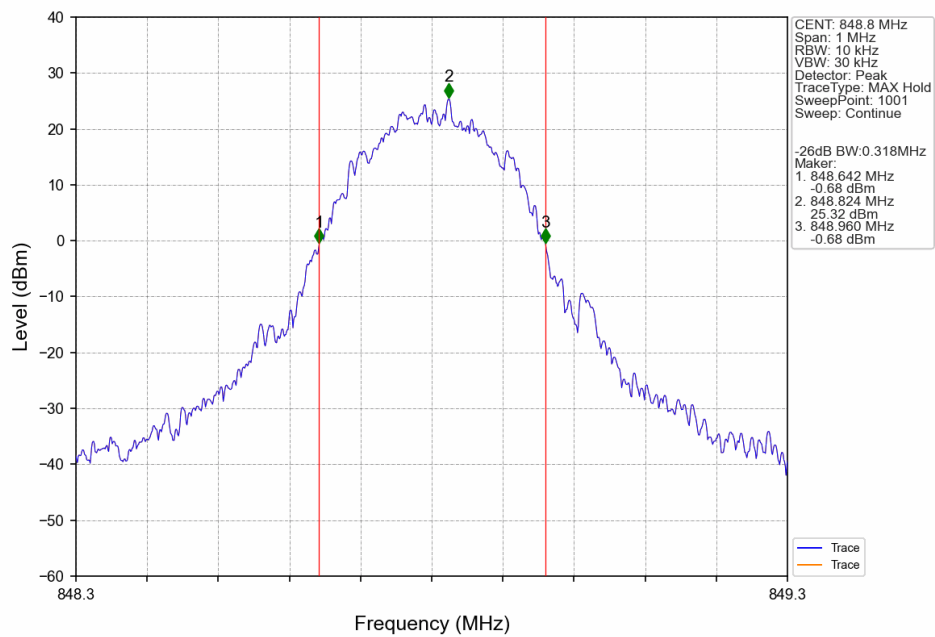
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GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

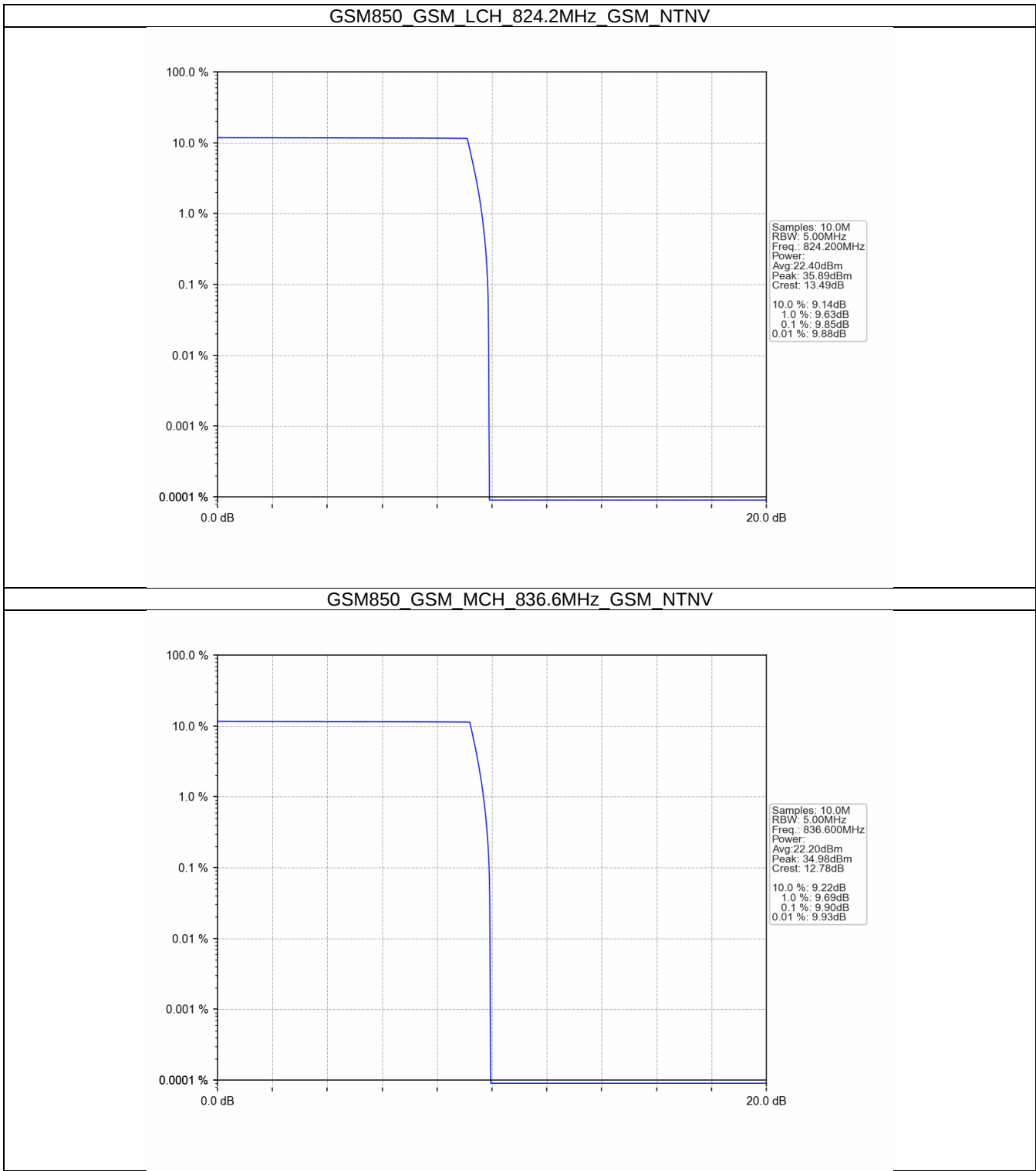
4.1 Test Result

4.1.1 GSM850

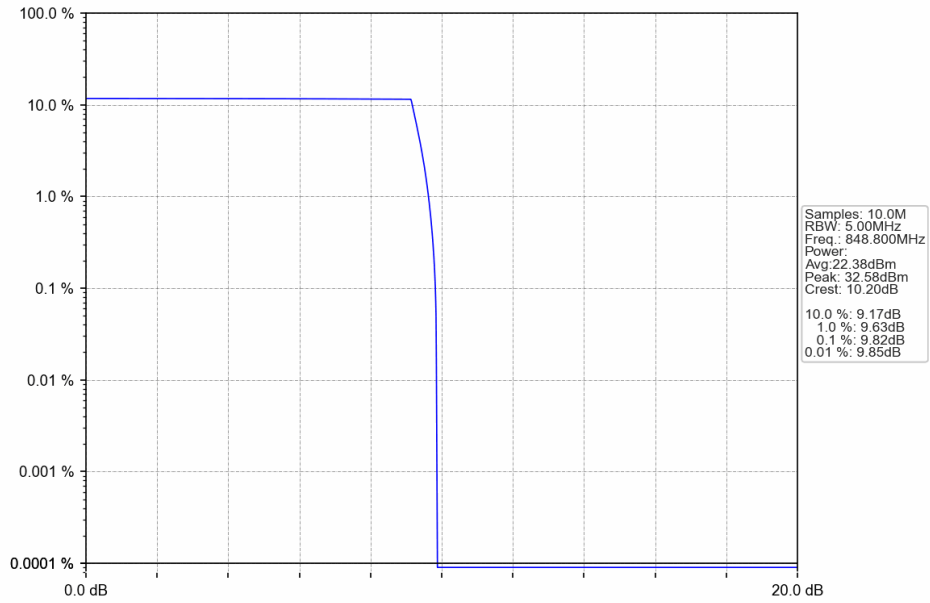
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.85	<=13	Pass
			836.6	9.90	<=13	Pass
			848.8	9.82	<=13	Pass
	GPRS	4 TX Slots	824.2	4.34	<=13	Pass
			836.6	4.36	<=13	Pass
			848.8	4.18	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.43	<=13	Pass
			836.6	8.59	<=13	Pass
			848.8	9.05	<=13	Pass

4.2 Test Graph

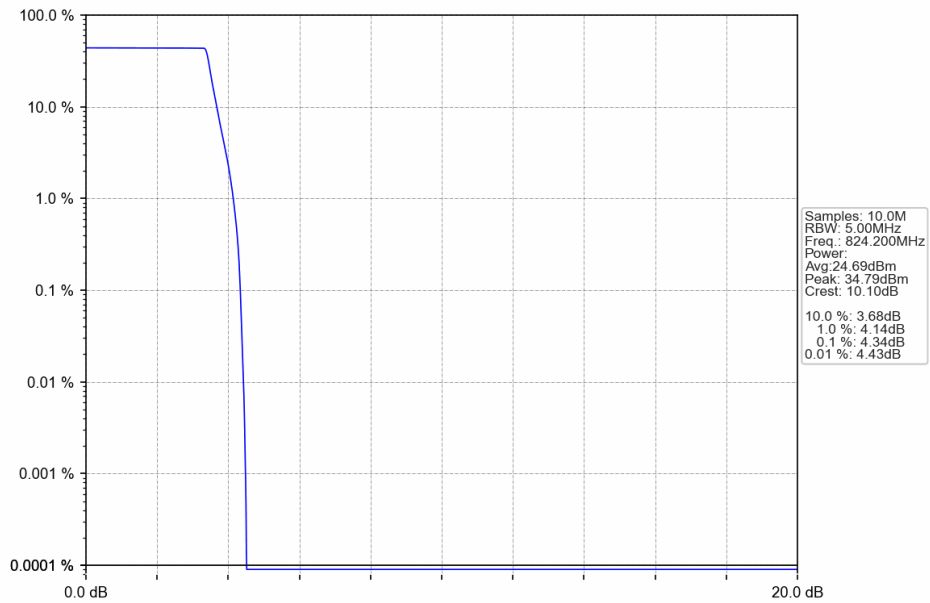
4.2.1 GSM850



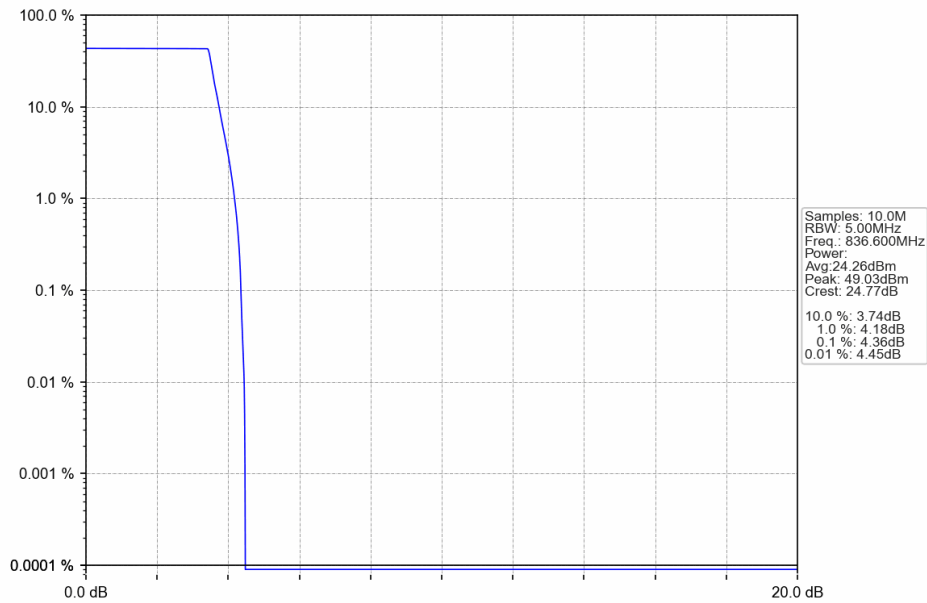
GSM850 GSM HCH 848.8MHz GSM NTN



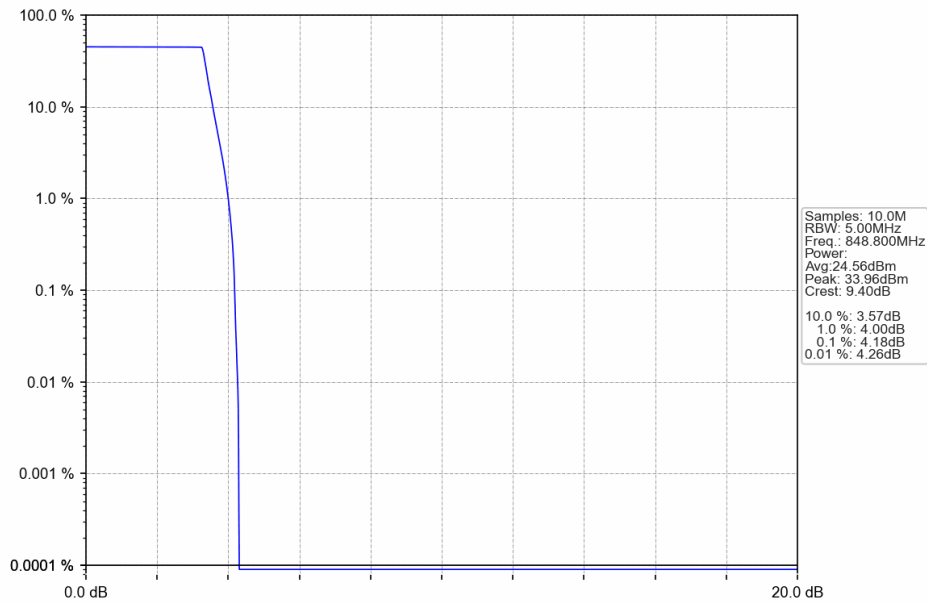
GSM850 GPRS LCH 824.2MHz 4 TX Slots NTN



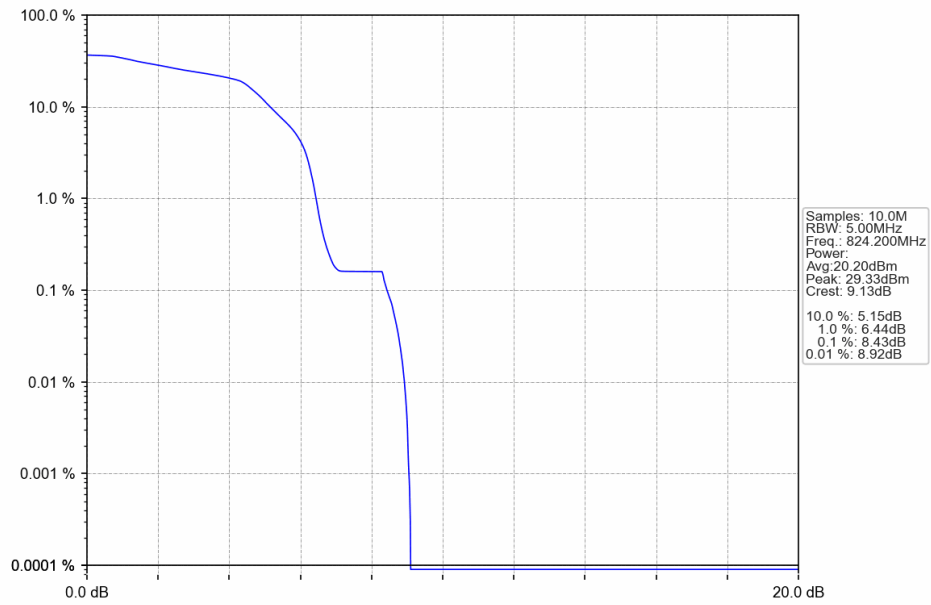
GSM850 GPRS MCH 836.6MHz 4 TX Slots NTNV



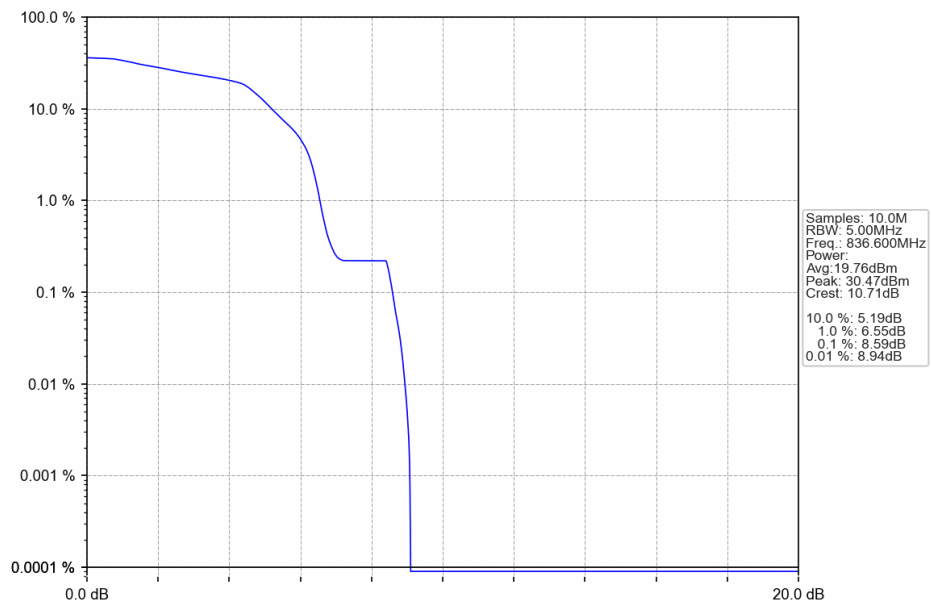
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTNV



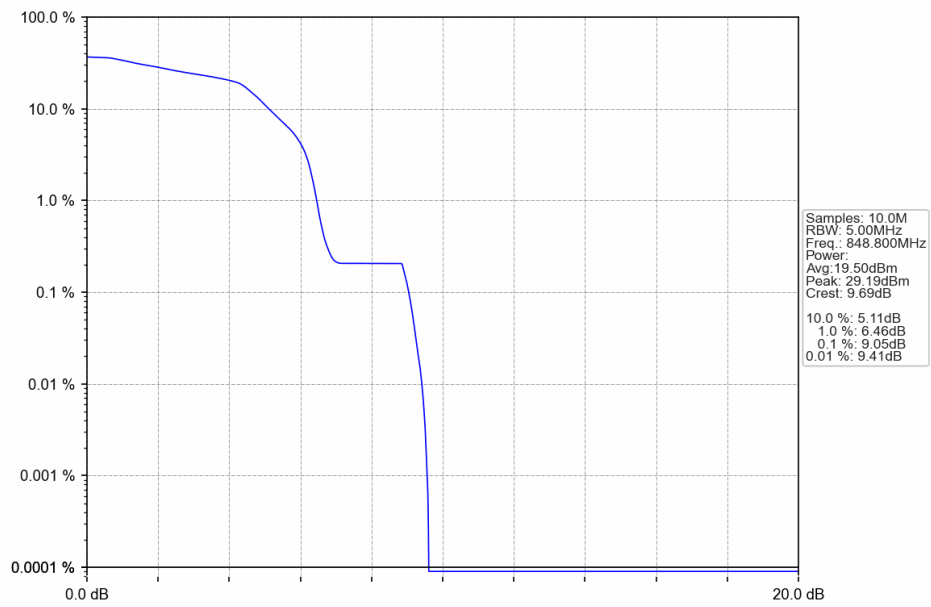
GSM850 EGPRS LCH 824.2MHz 4 TX Slots NTNV



GSM850 EGPRS MCH 836.6MHz 4 TX Slots NTNV



GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTNV



5. Spurious Emission

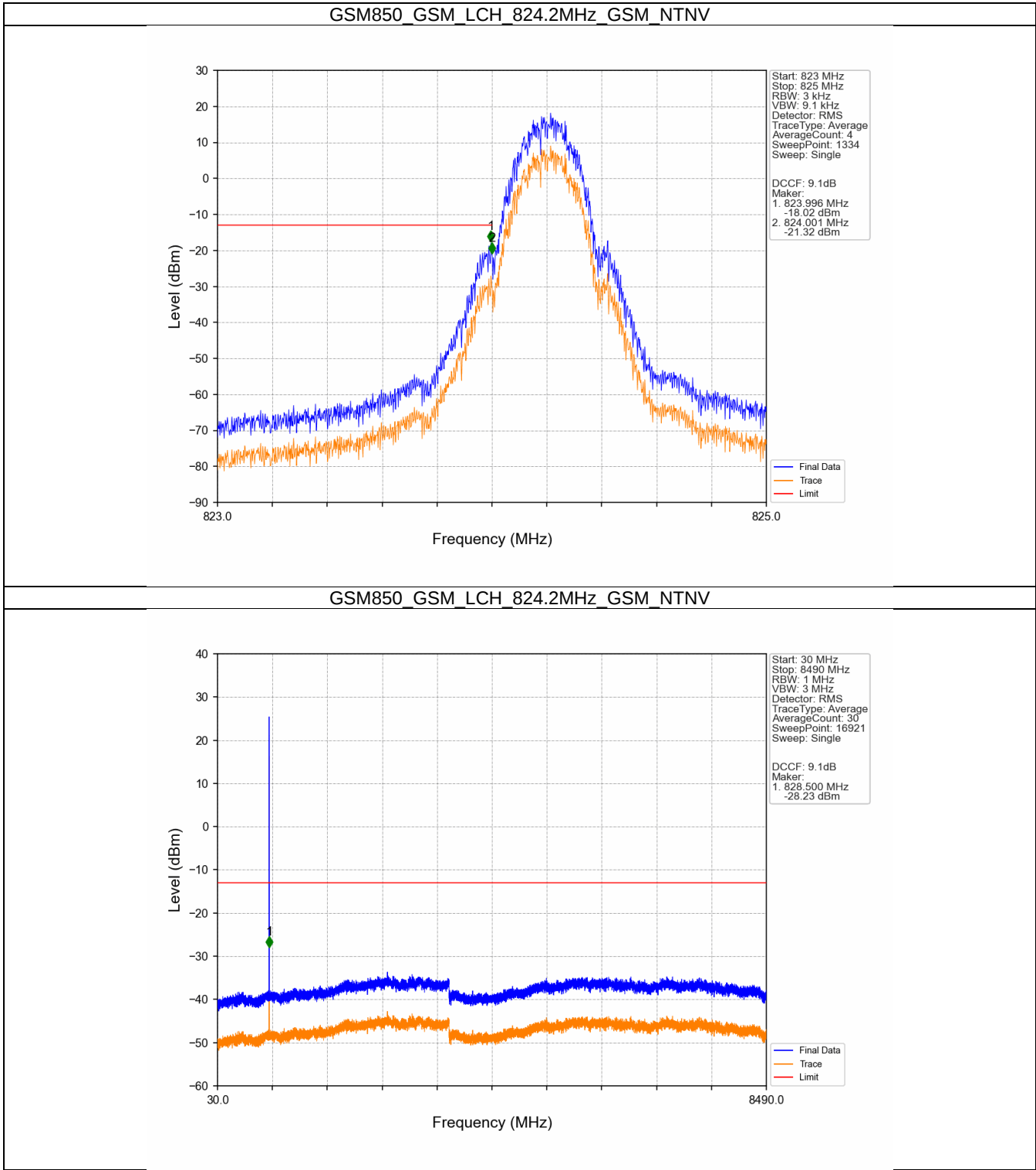
5.1 Test Result

5.1.1 GSM850

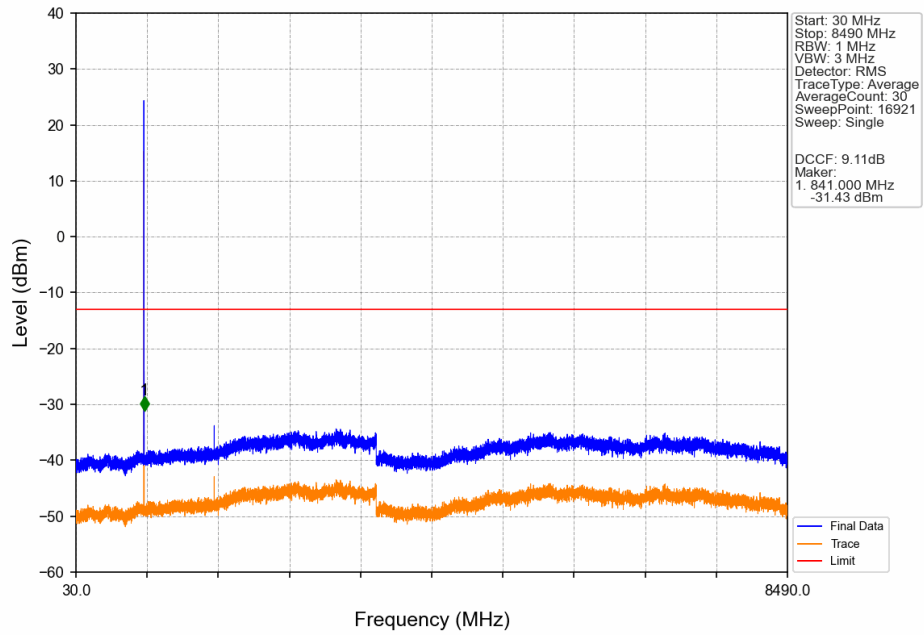
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GSM	GSM	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass

5.2 Test Graph

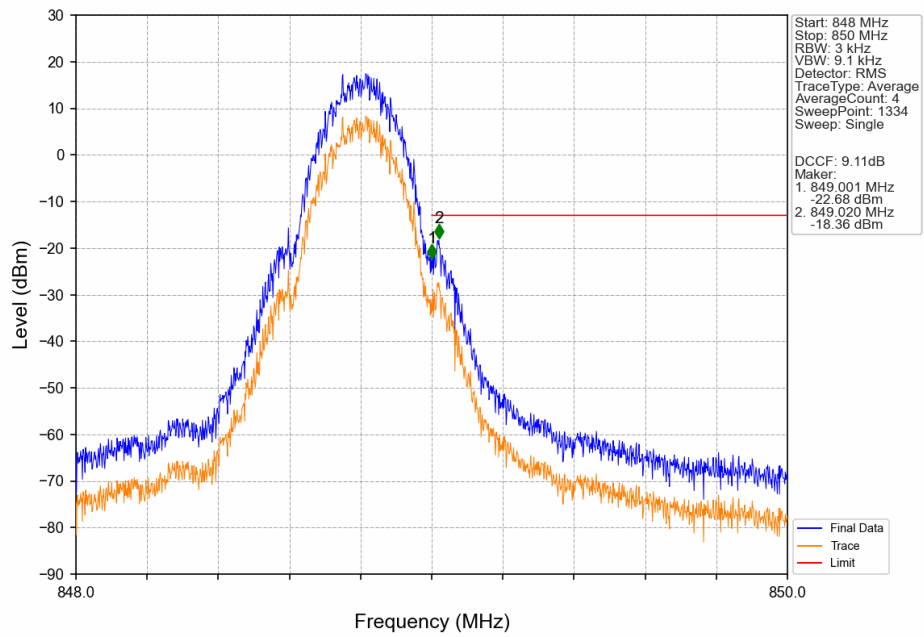
5.2.1 GSM850



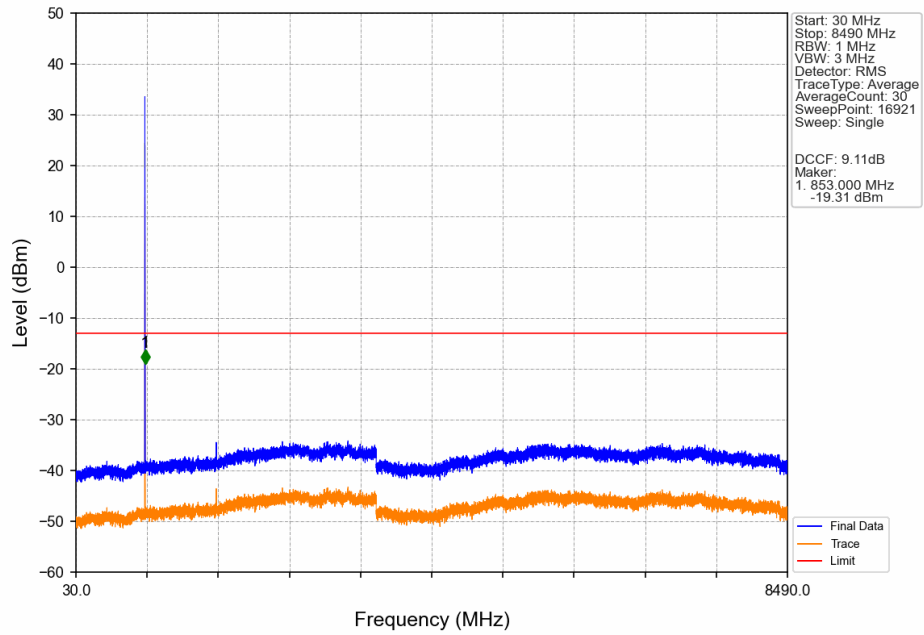
GSM850 GSM MCH 836.6MHz GSM NTNV



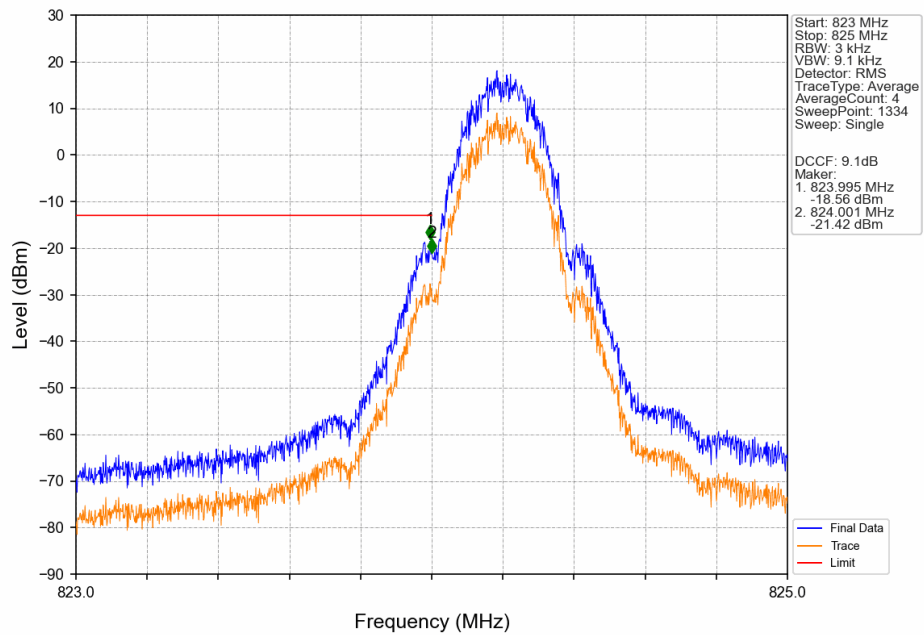
GSM850 GSM HCH 848.8MHz GSM NTNV



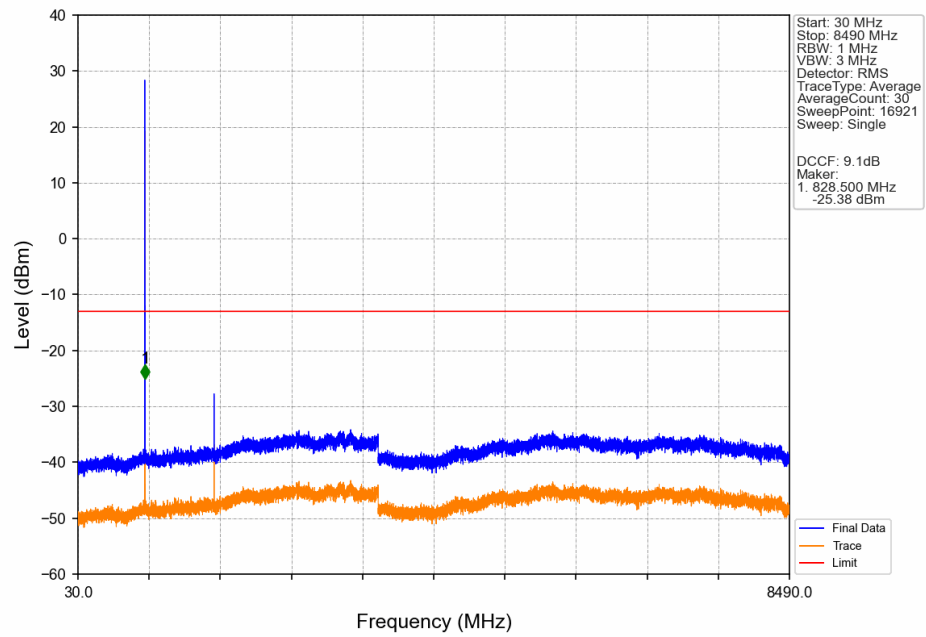
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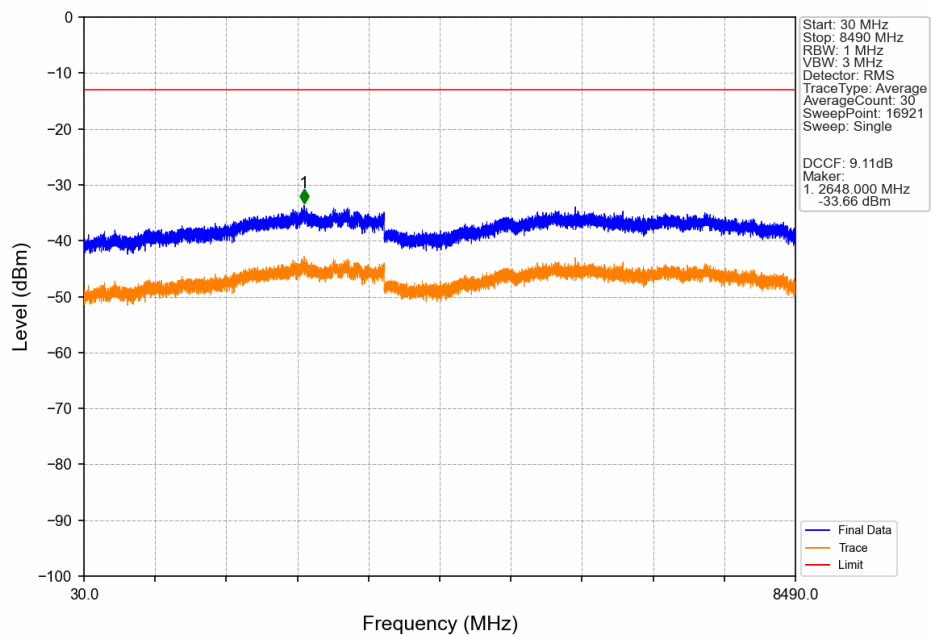
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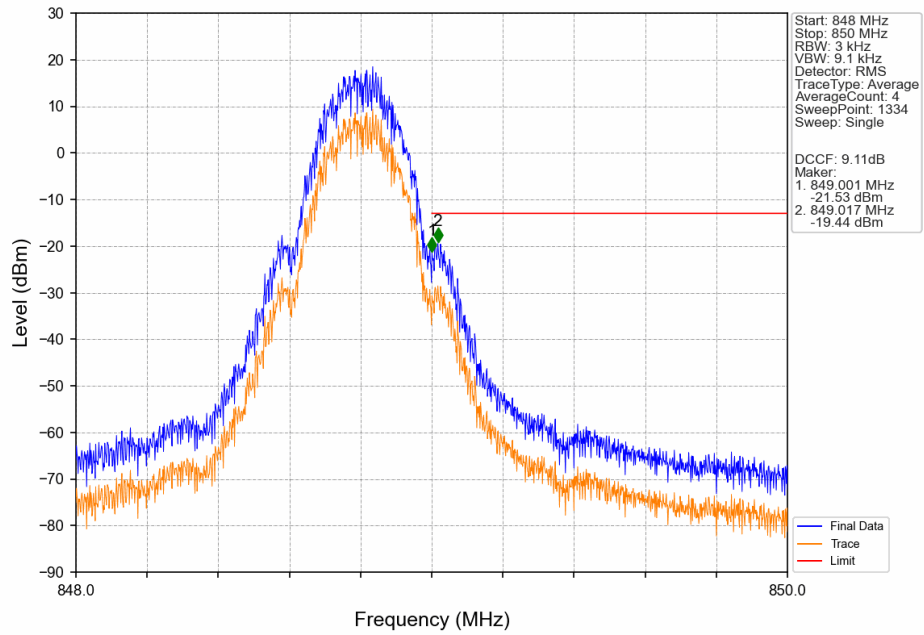
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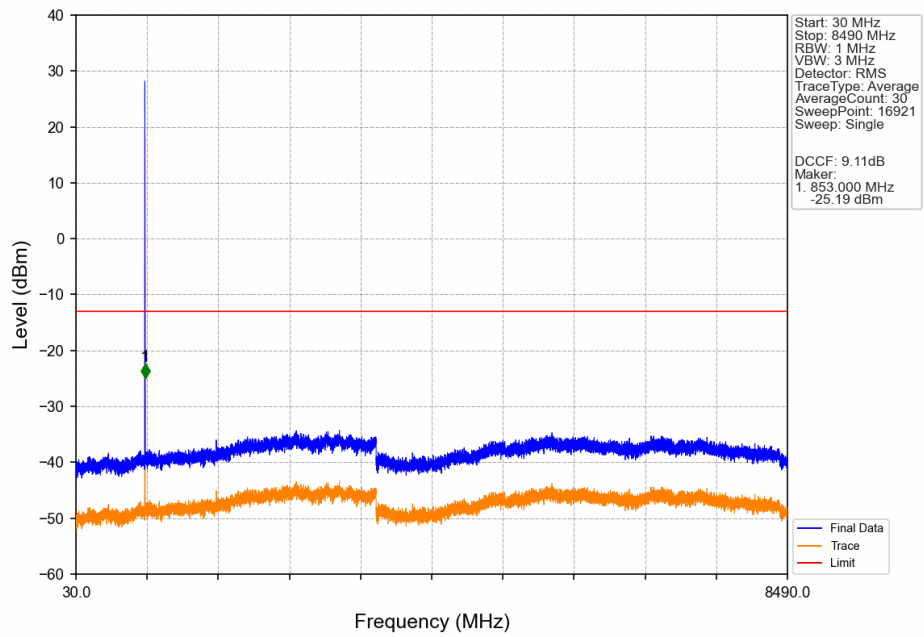
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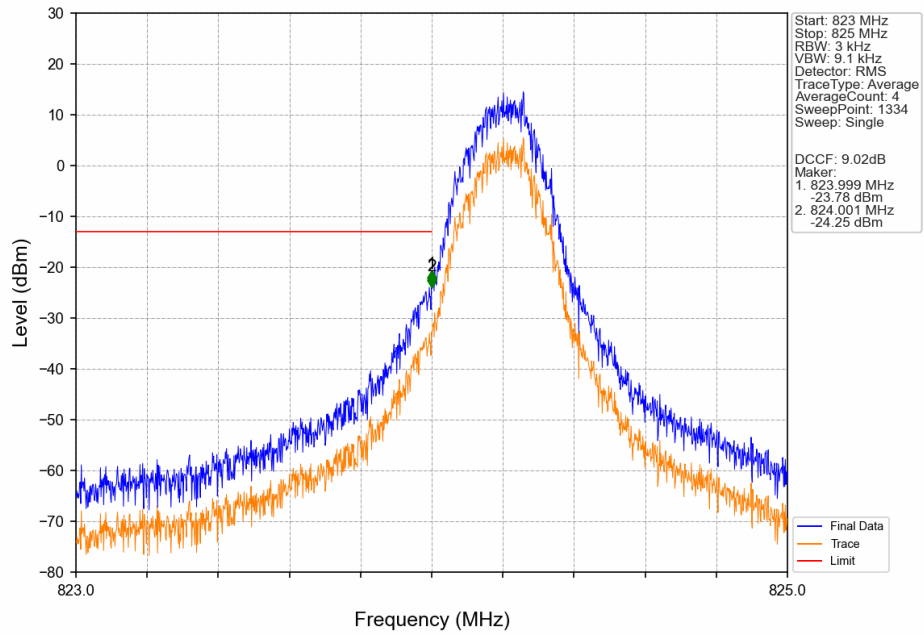
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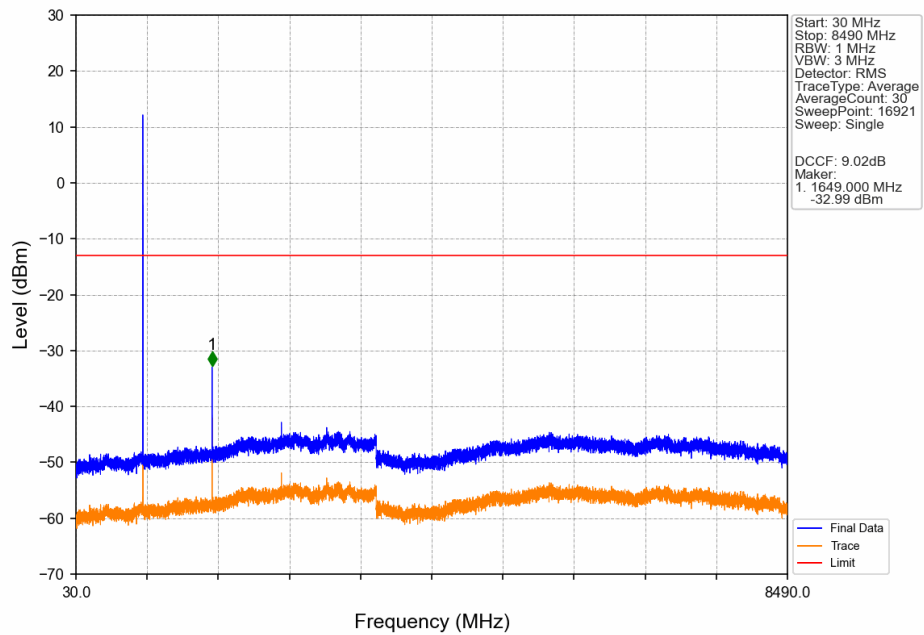
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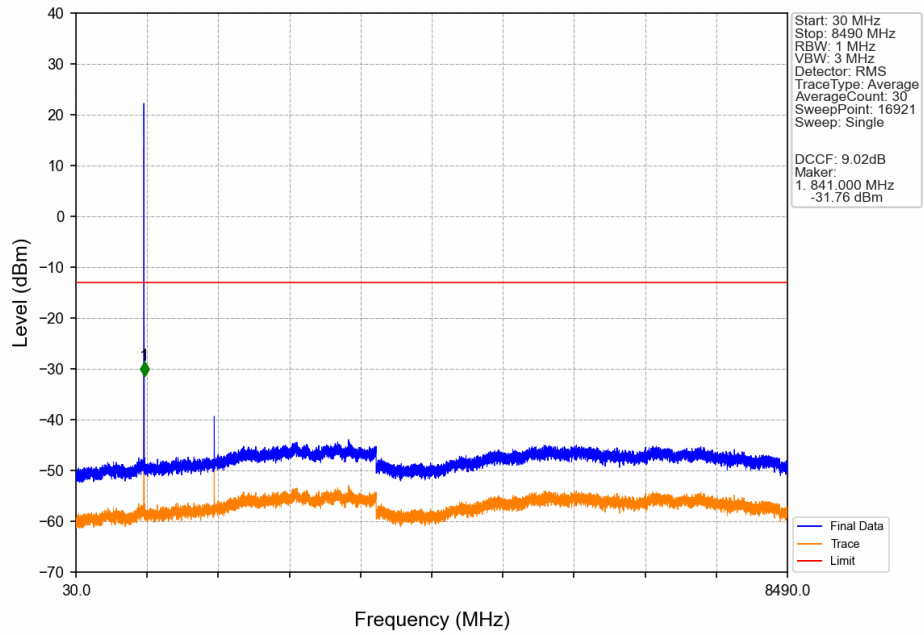
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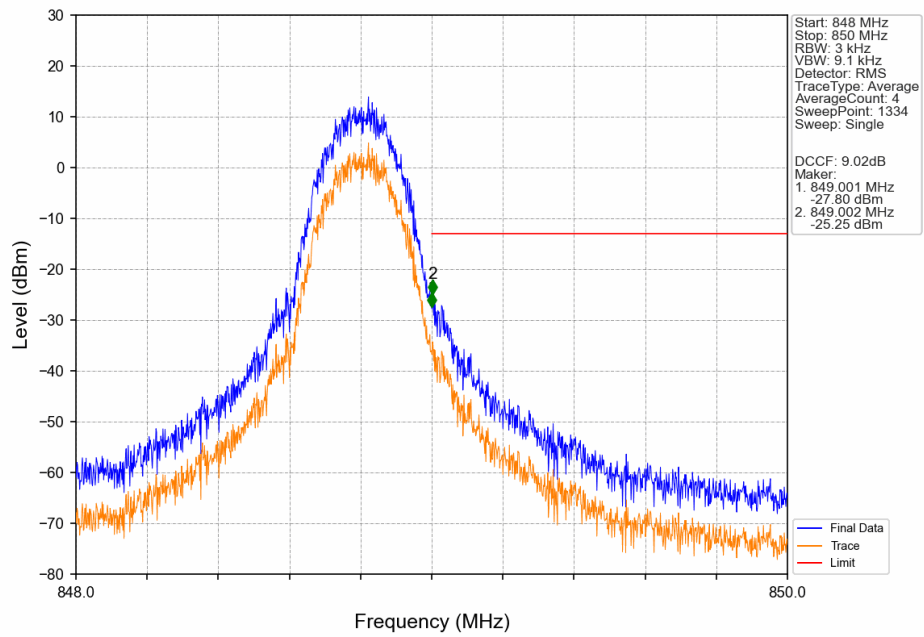
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GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV

