

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	GPRS	1 TX Slot	824.2	33.37	0.86	32.08	<=38.45	Pass
		2 TX Slots	824.2	32.52	0.86	31.23	<=38.45	Pass
		3 TX Slots	824.2	30.15	0.86	28.86	<=38.45	Pass
		4 TX Slots	824.2	28.83	0.86	27.54	<=38.45	Pass
		1 TX Slot	836.6	33.17	0.86	31.88	<=38.45	Pass
		2 TX Slots	836.6	32.12	0.86	30.83	<=38.45	Pass
		3 TX Slots	836.6	30.09	0.86	28.80	<=38.45	Pass
		4 TX Slots	836.6	28.76	0.86	27.47	<=38.45	Pass
		1 TX Slot	848.8	33.21	0.86	31.92	<=38.45	Pass
		2 TX Slots	848.8	31.80	0.86	30.51	<=38.45	Pass
		3 TX Slots	848.8	29.76	0.86	28.47	<=38.45	Pass
		4 TX Slots	848.8	28.47	0.86	27.18	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.98	0.86	25.69	<=38.45	Pass
		2 TX Slots	824.2	26.54	0.86	25.25	<=38.45	Pass
		3 TX Slots	824.2	24.64	0.86	23.35	<=38.45	Pass
		4 TX Slots	824.2	23.96	0.86	22.67	<=38.45	Pass
		1 TX Slot	836.6	26.88	0.86	25.59	<=38.45	Pass
		2 TX Slots	836.6	26.35	0.86	25.06	<=38.45	Pass
		3 TX Slots	836.6	24.67	0.86	23.38	<=38.45	Pass
		4 TX Slots	836.6	23.63	0.86	22.34	<=38.45	Pass
		1 TX Slot	848.8	26.65	0.86	25.36	<=38.45	Pass
		2 TX Slots	848.8	26.31	0.86	25.02	<=38.45	Pass
		3 TX Slots	848.8	24.23	0.86	22.94	<=38.45	Pass
		4 TX Slots	848.8	23.63	0.86	22.34	<=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	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	LV	27.088	0.0329	-2.5 to 2.5	Pass
			NV	29.380	0.0356	-2.5 to 2.5	Pass
			HV	27.766	0.0337	-2.5 to 2.5	Pass
		-30	NV	27.830	0.0338	-2.5 to 2.5	Pass
		-20	NV	29.897	0.0363	-2.5 to 2.5	Pass
		-10	NV	28.638	0.0347	-2.5 to 2.5	Pass
		0	NV	27.378	0.0332	-2.5 to 2.5	Pass
		10	NV	26.184	0.0318	-2.5 to 2.5	Pass

		30	NV	26.604	0.0323	-2.5 to 2.5	Pass
		40	NV	27.830	0.0338	-2.5 to 2.5	Pass
		50	NV	26.248	0.0318	-2.5 to 2.5	Pass
	836.6	20	LV	28.734	0.0343	-2.5 to 2.5	Pass
			NV	27.152	0.0325	-2.5 to 2.5	Pass
			HV	28.799	0.0344	-2.5 to 2.5	Pass
		-30	NV	27.023	0.0323	-2.5 to 2.5	Pass
		-20	NV	27.540	0.0329	-2.5 to 2.5	Pass
		-10	NV	27.185	0.0325	-2.5 to 2.5	Pass
		0	NV	26.797	0.0320	-2.5 to 2.5	Pass
		10	NV	27.120	0.0324	-2.5 to 2.5	Pass
		30	NV	27.701	0.0331	-2.5 to 2.5	Pass
		40	NV	27.701	0.0331	-2.5 to 2.5	Pass
		50	NV	26.733	0.0320	-2.5 to 2.5	Pass
	848.8	20	LV	28.089	0.0331	-2.5 to 2.5	Pass
			NV	26.571	0.0313	-2.5 to 2.5	Pass
			HV	27.152	0.0320	-2.5 to 2.5	Pass
		-30	NV	26.313	0.0310	-2.5 to 2.5	Pass
		-20	NV	25.861	0.0305	-2.5 to 2.5	Pass
		-10	NV	27.411	0.0323	-2.5 to 2.5	Pass
		0	NV	28.605	0.0337	-2.5 to 2.5	Pass
		10	NV	28.638	0.0337	-2.5 to 2.5	Pass
		30	NV	27.508	0.0324	-2.5 to 2.5	Pass
		40	NV	28.541	0.0336	-2.5 to 2.5	Pass
		50	NV	25.635	0.0302	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	30.252	0.0367	-2.5 to 2.5	Pass
			NV	33.900	0.0411	-2.5 to 2.5	Pass
			HV	31.059	0.0377	-2.5 to 2.5	Pass
		-30	NV	31.446	0.0382	-2.5 to 2.5	Pass
		-20	NV	30.865	0.0374	-2.5 to 2.5	Pass
		-10	NV	33.771	0.0410	-2.5 to 2.5	Pass
		0	NV	30.252	0.0367	-2.5 to 2.5	Pass
		10	NV	30.704	0.0373	-2.5 to 2.5	Pass
		30	NV	30.058	0.0365	-2.5 to 2.5	Pass
		40	NV	31.834	0.0386	-2.5 to 2.5	Pass
		50	NV	30.510	0.0370	-2.5 to 2.5	Pass
	836.6	20	LV	31.737	0.0379	-2.5 to 2.5	Pass
			NV	31.091	0.0372	-2.5 to 2.5	Pass
			HV	31.382	0.0375	-2.5 to 2.5	Pass
		-30	NV	31.608	0.0378	-2.5 to 2.5	Pass
		-20	NV	29.445	0.0352	-2.5 to 2.5	Pass
		-10	NV	29.768	0.0356	-2.5 to 2.5	Pass
		0	NV	29.445	0.0352	-2.5 to 2.5	Pass
		10	NV	29.832	0.0357	-2.5 to 2.5	Pass
		30	NV	29.735	0.0355	-2.5 to 2.5	Pass
		40	NV	28.573	0.0342	-2.5 to 2.5	Pass
		50	NV	29.897	0.0357	-2.5 to 2.5	Pass
	848.8	20	LV	31.640	0.0373	-2.5 to 2.5	Pass
			NV	29.057	0.0342	-2.5 to 2.5	Pass
			HV	29.316	0.0345	-2.5 to 2.5	Pass
		-30	NV	29.186	0.0344	-2.5 to 2.5	Pass
		-20	NV	28.508	0.0336	-2.5 to 2.5	Pass
		-10	NV	29.348	0.0346	-2.5 to 2.5	Pass
		0	NV	30.865	0.0364	-2.5 to 2.5	Pass
		10	NV	28.218	0.0332	-2.5 to 2.5	Pass
		30	NV	29.735	0.0350	-2.5 to 2.5	Pass

		40	NV	29.090	0.0343	-2.5 to 2.5	Pass
		50	NV	30.252	0.0356	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

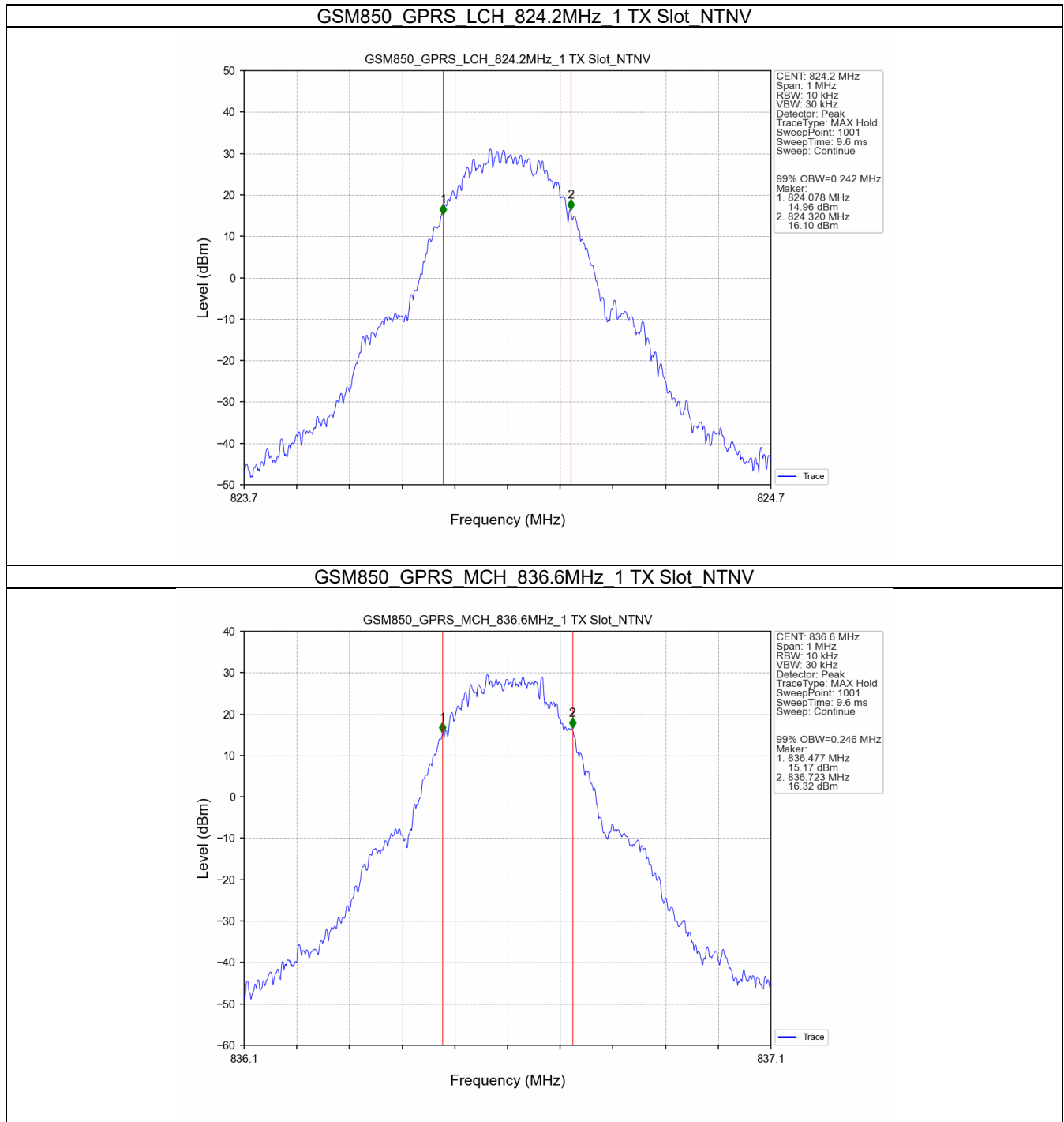
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.242	/	Pass
			836.6	0.246	/	Pass
			848.8	0.247	/	Pass
	EGPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.243	/	Pass
			848.8	0.234	/	Pass

3.1.2 GSM850_XDB

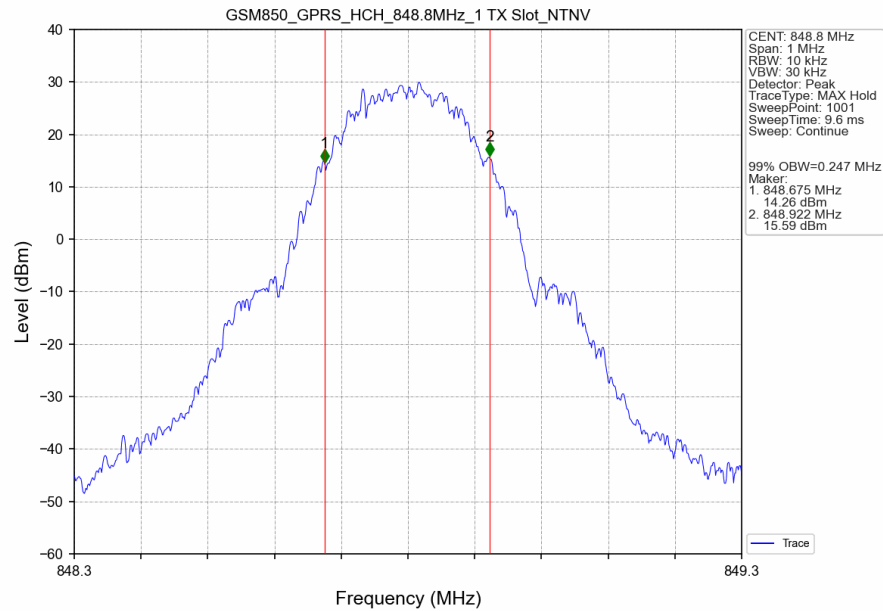
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.309	/	Pass
			836.6	0.319	/	Pass
			848.8	0.327	/	Pass
	EGPRS	1 TX Slot	824.2	0.311	/	Pass
			836.6	0.309	/	Pass
			848.8	0.295	/	Pass

3.2 Test Graph

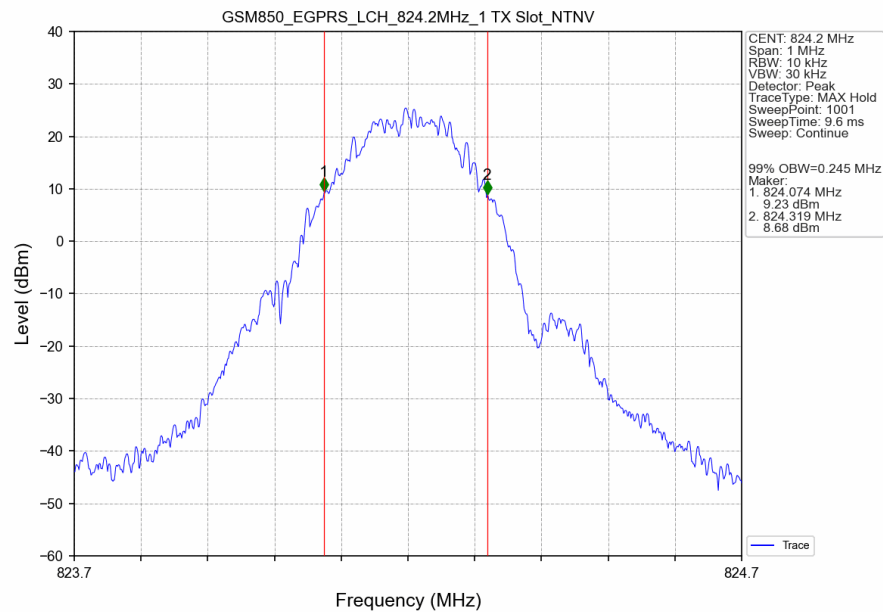
3.2.1 GSM850_OBW



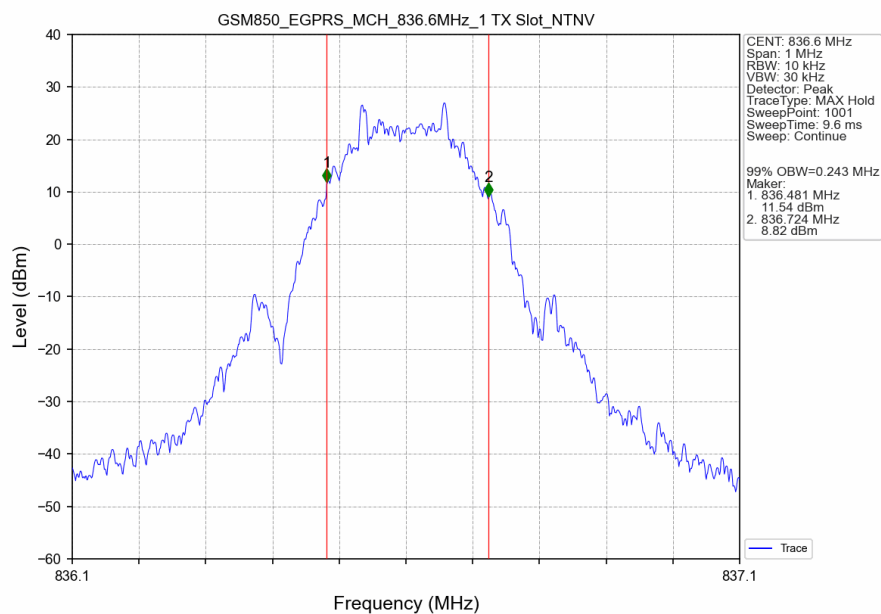
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



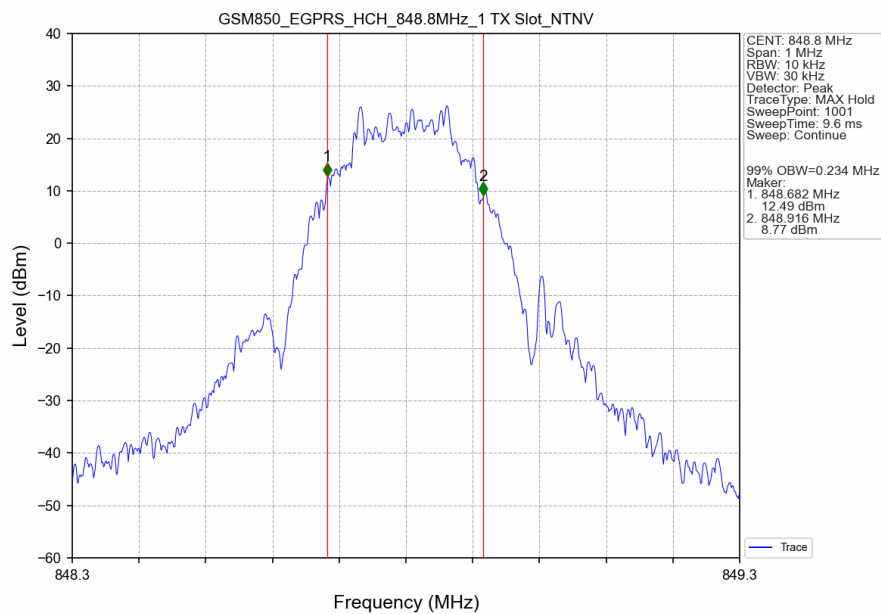
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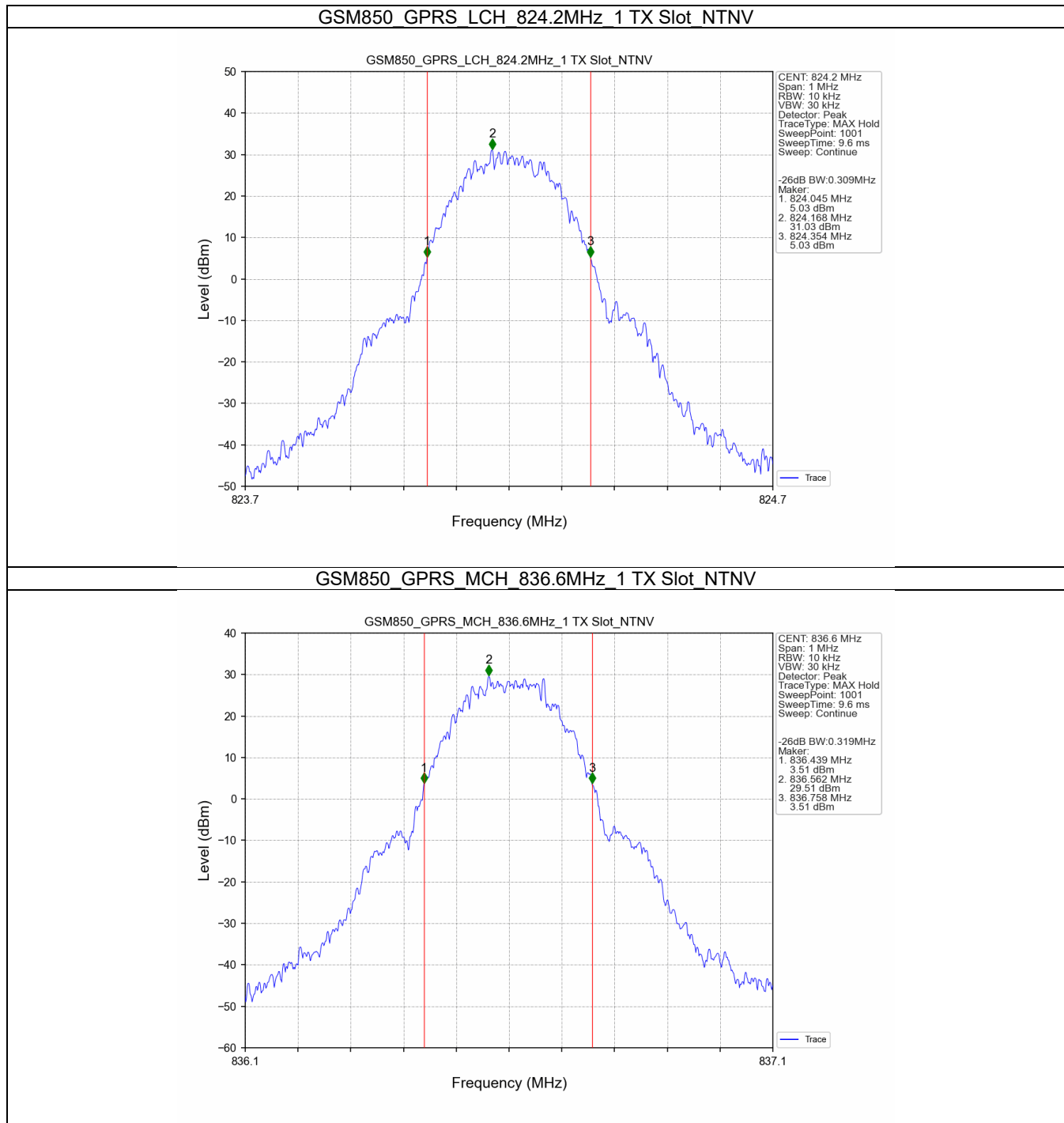
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



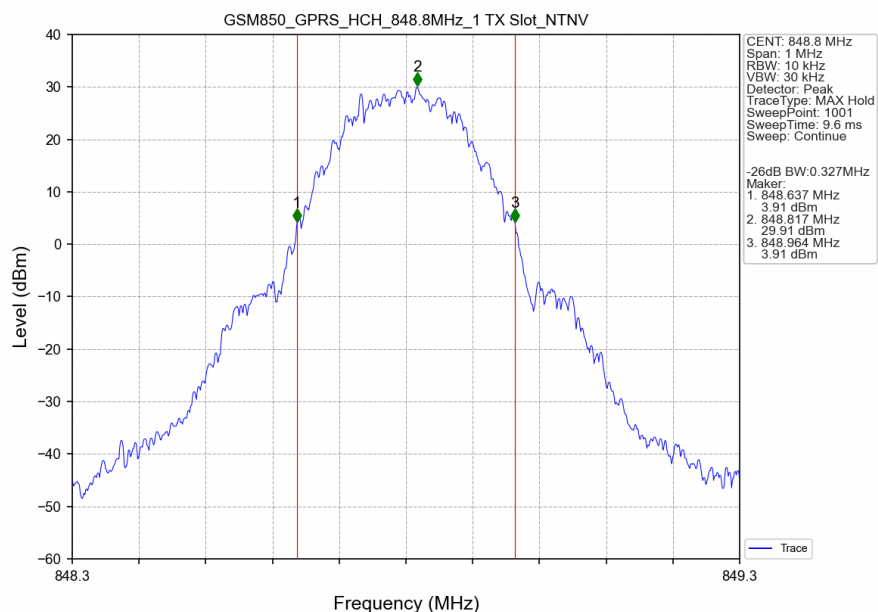
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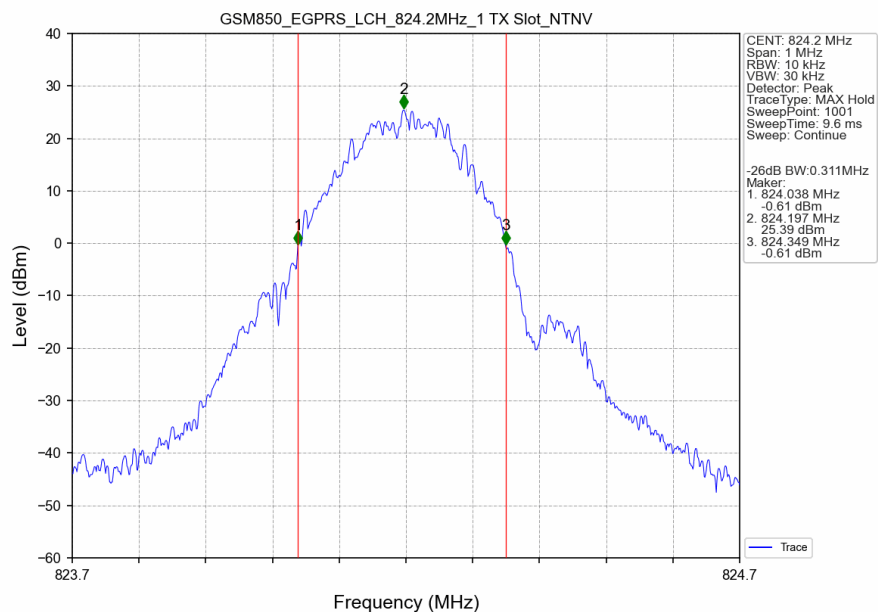
3.2.2 GSM850_XDB



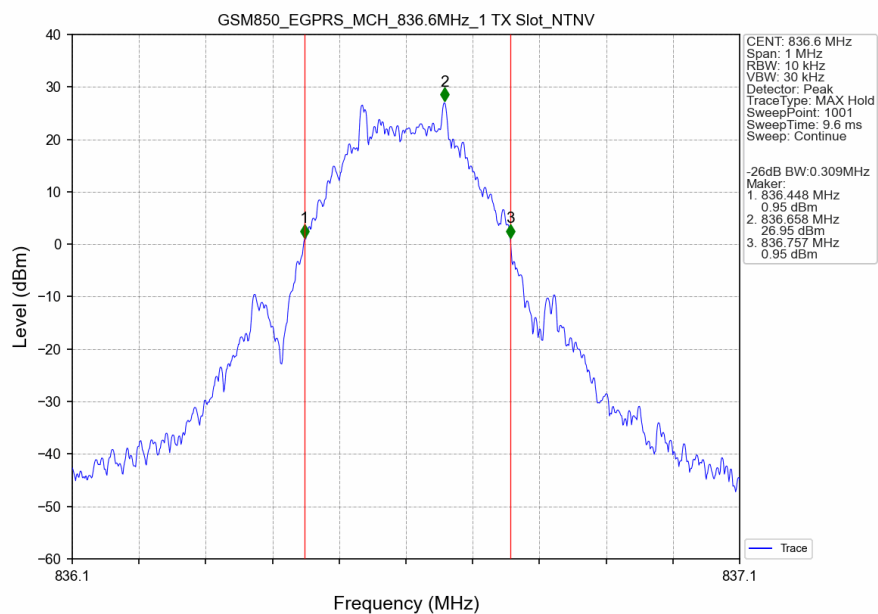
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



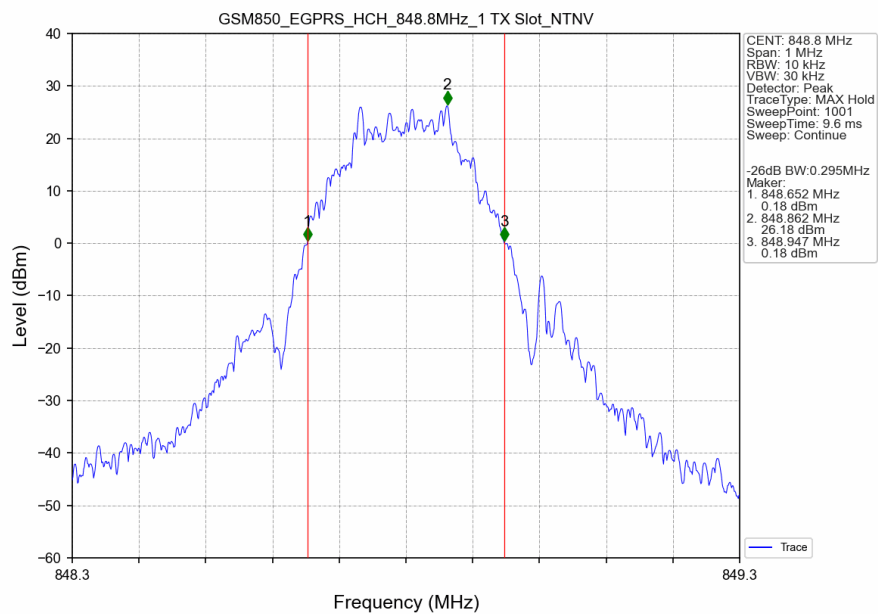
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

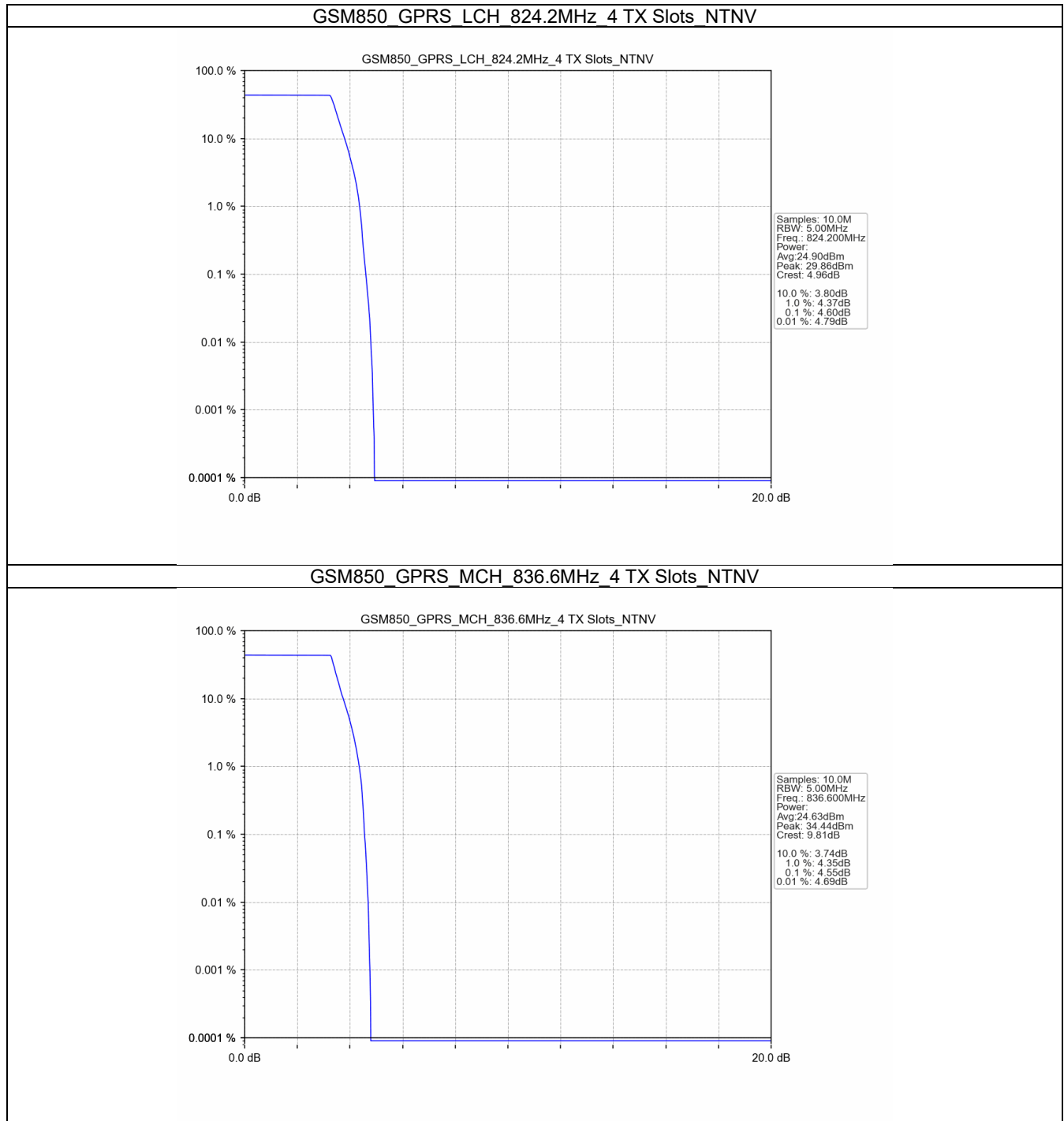
4.1 Test Result

4.1.1 GSM850

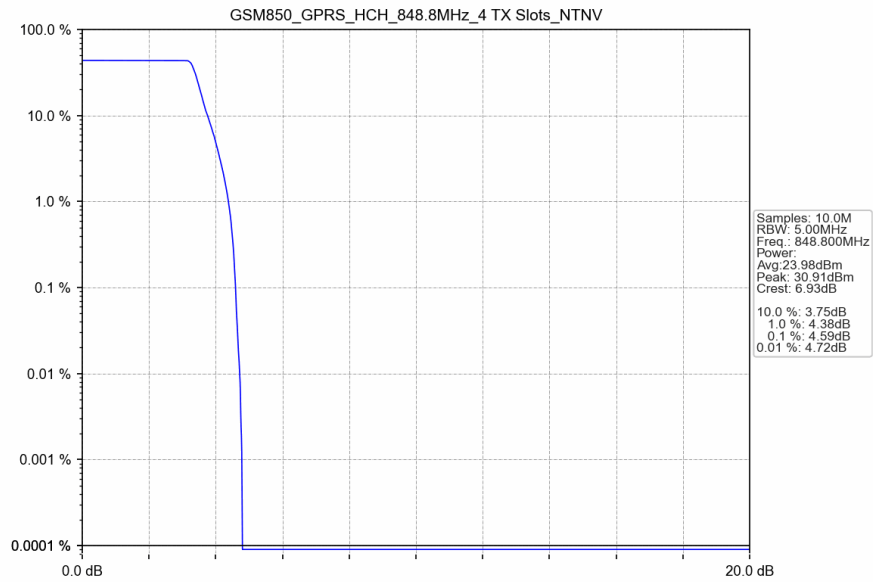
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	4.60	<=13	Pass
			836.6	4.55	<=13	Pass
			848.8	4.59	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.11	<=13	Pass
			836.6	6.91	<=13	Pass
			848.8	8.99	<=13	Pass

4.2 Test Graph

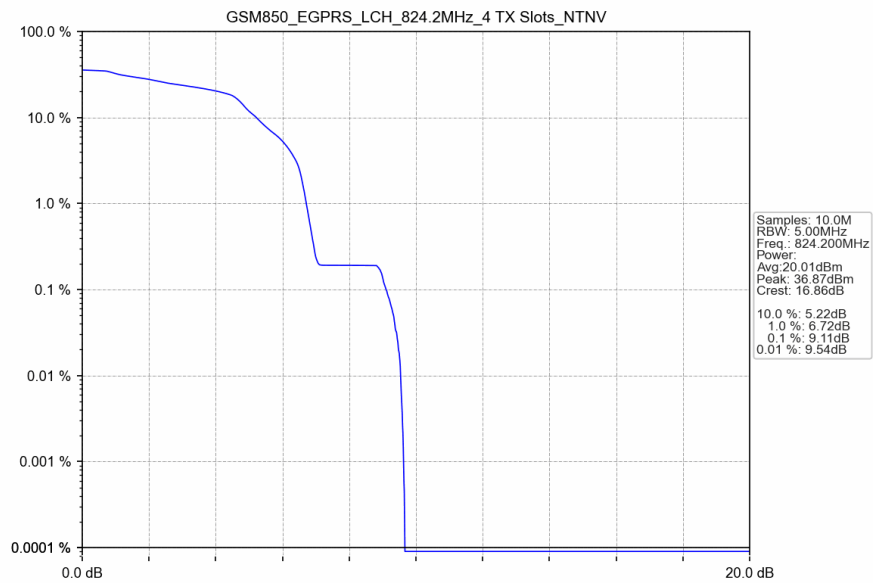
4.2.1 GSM850



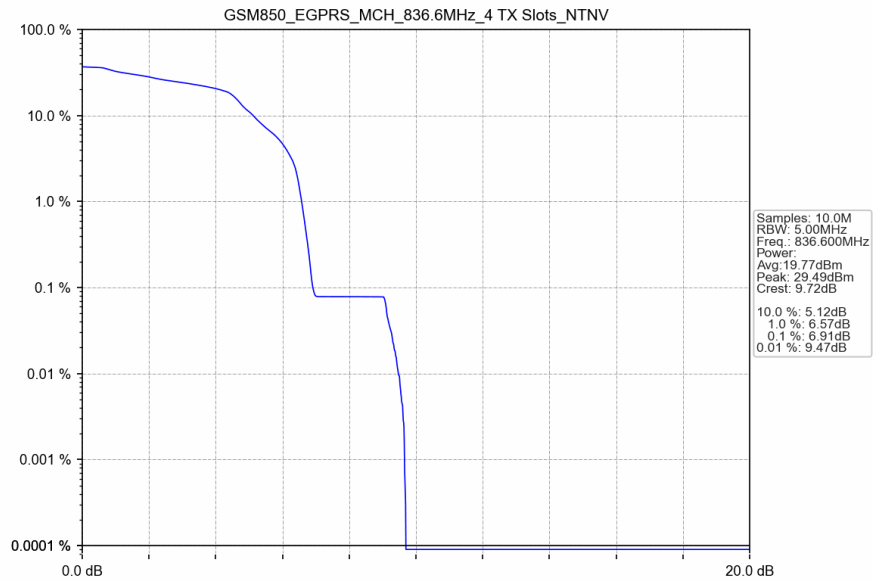
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



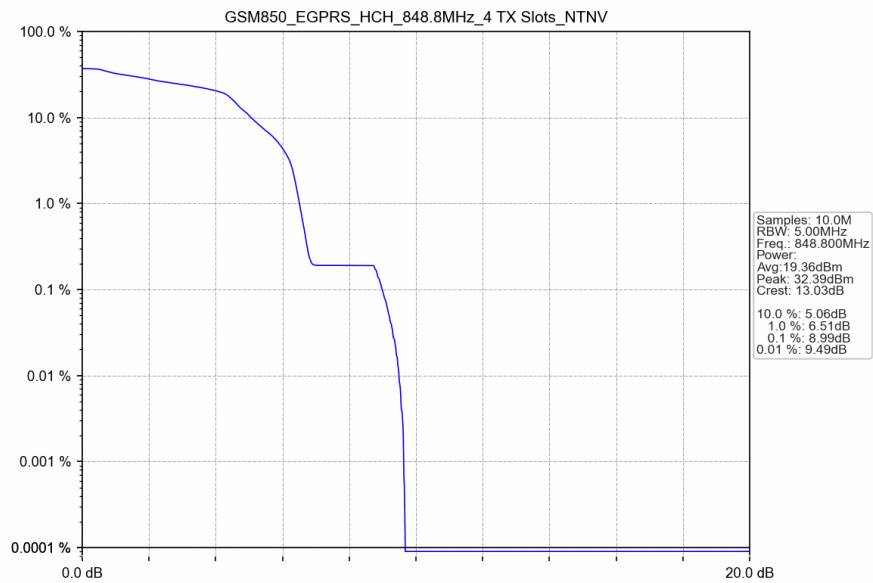
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV





5. Spurious Emission

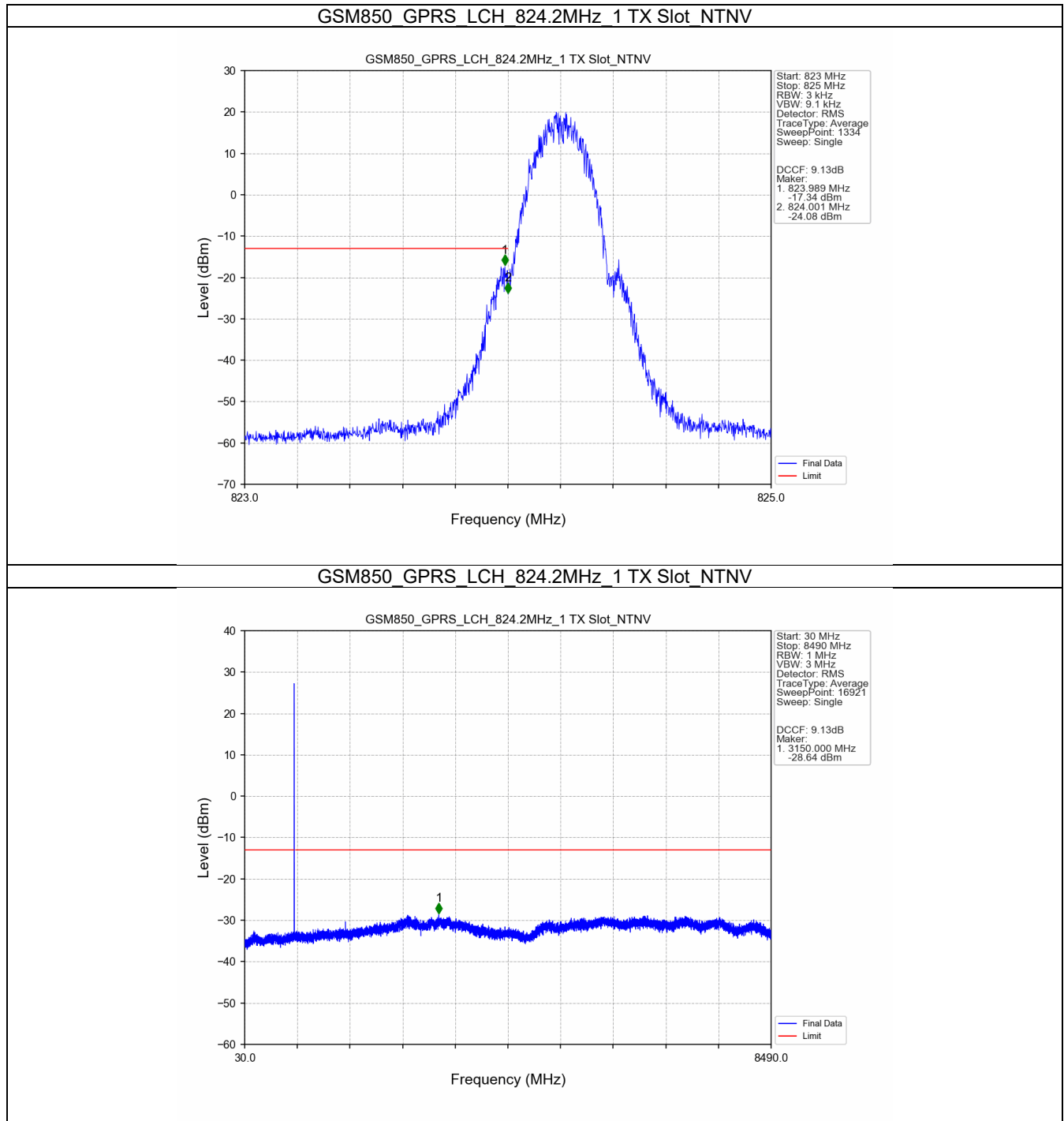
5.1 Test Result

5.1.1 GSM850

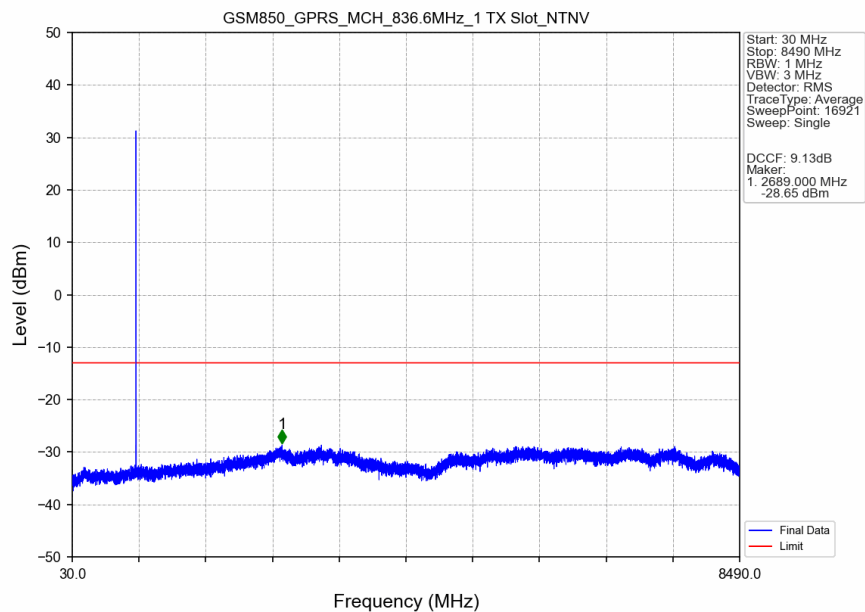
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8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

5.2 Test Graph

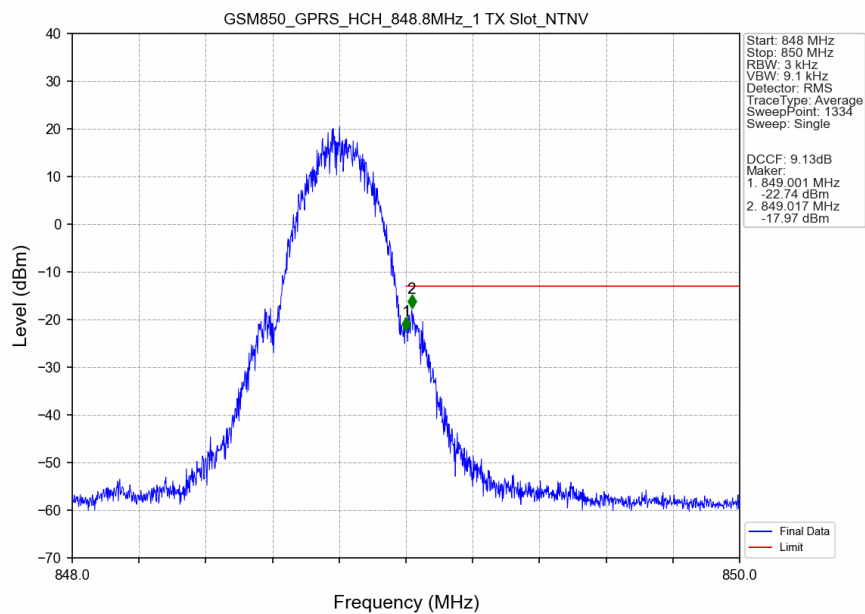
5.2.1 GSM850



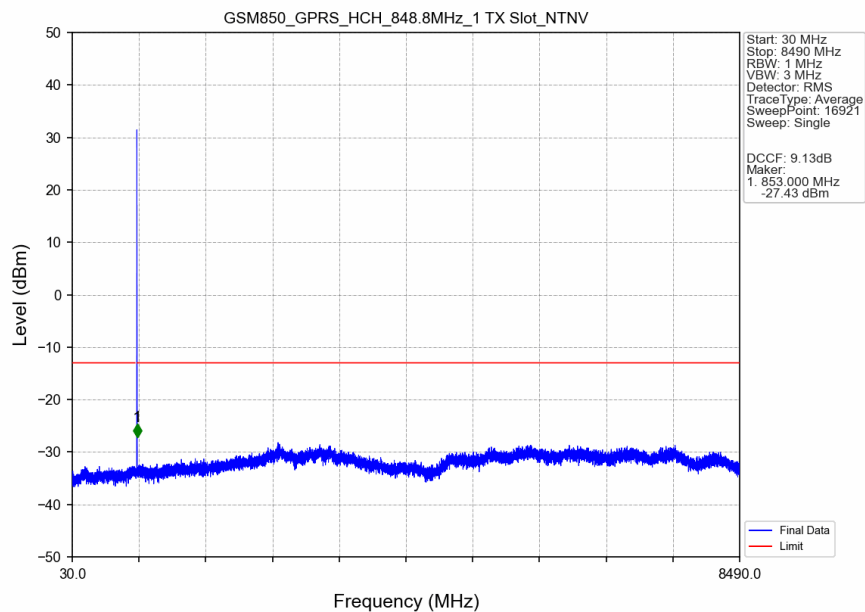
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



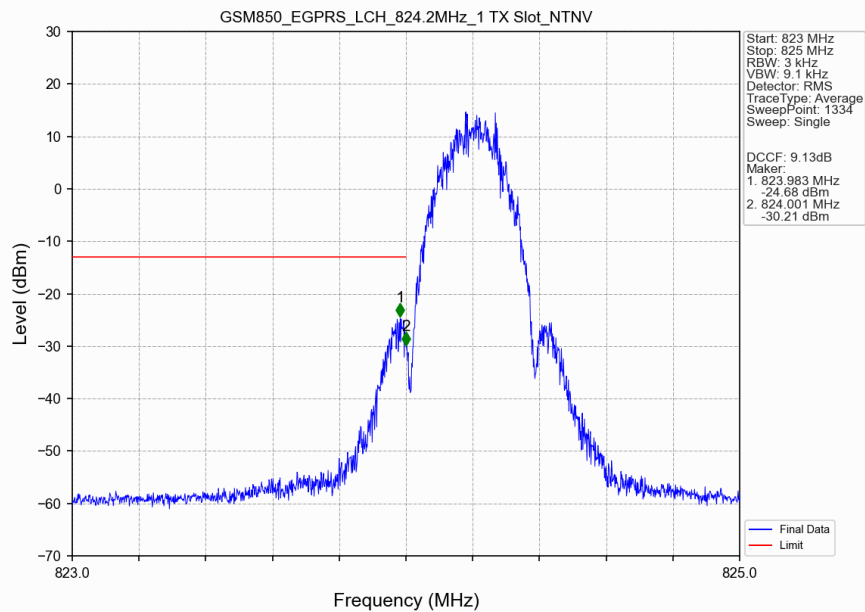
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



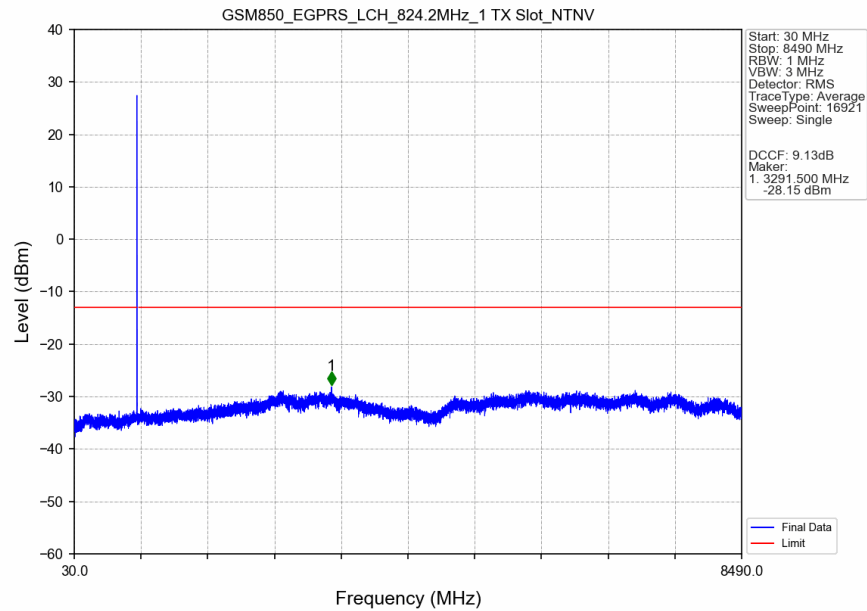
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



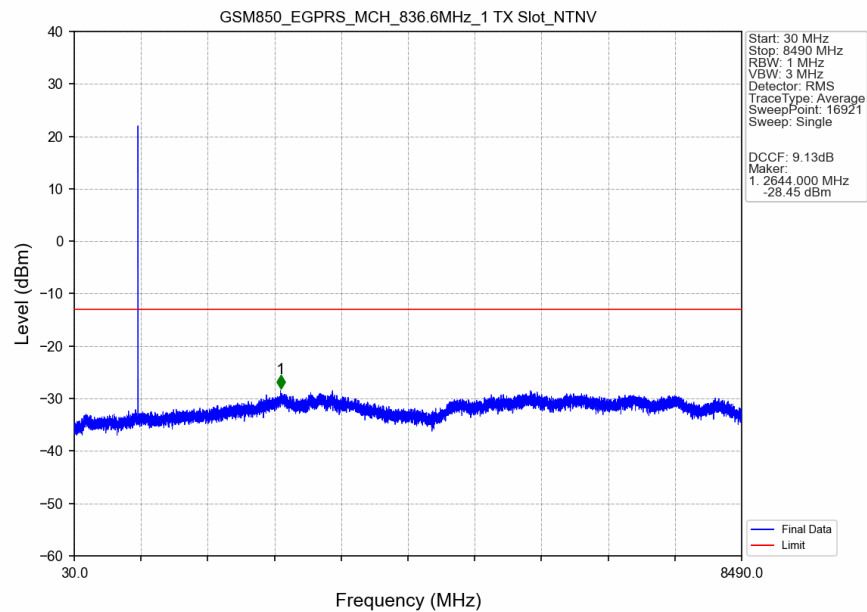
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



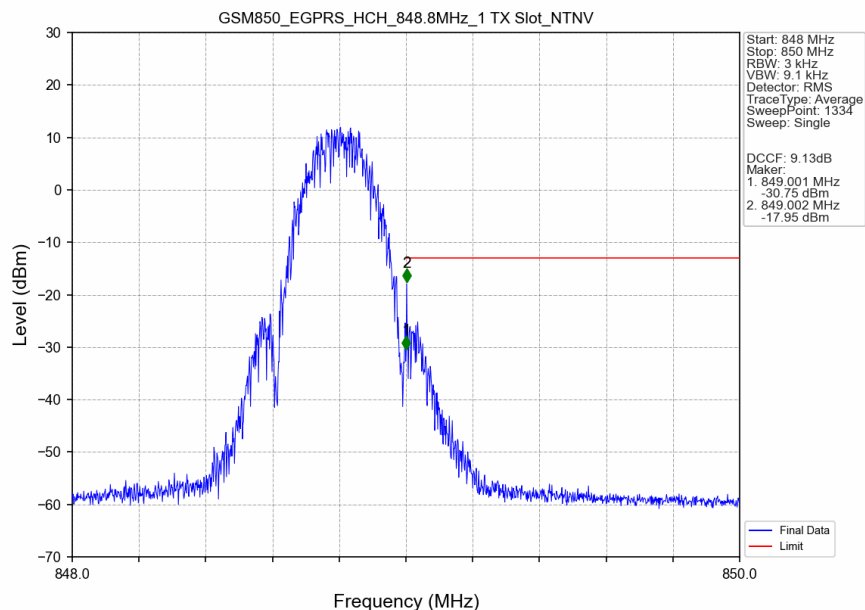
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

