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	N/A	N/A	N/A	N/A	Pass
			836.6	N/A	N/A	N/A	N/A	Pass
			848.8	N/A	N/A	N/A	N/A	Pass
	GPRS	1 TX Slot	824.2	33.85	-3.29	28.41	<=38.45	Pass
		2 TX Slots	824.2	33.66	-3.29	28.22	<=38.45	Pass
		3 TX Slots	824.2	31.37	-3.29	25.93	<=38.45	Pass
		4 TX Slots	824.2	30.13	-3.29	24.69	<=38.45	Pass
		1 TX Slot	836.6	33.65	-3.29	28.21	<=38.45	Pass
		2 TX Slots	836.6	33.47	-3.29	28.03	<=38.45	Pass
		3 TX Slots	836.6	31.48	-3.29	26.04	<=38.45	Pass
		4 TX Slots	836.6	30.24	-3.29	24.80	<=38.45	Pass
		1 TX Slot	848.8	33.80	-3.29	28.36	<=38.45	Pass
		2 TX Slots	848.8	33.62	-3.29	28.18	<=38.45	Pass
		3 TX Slots	848.8	31.64	-3.29	26.20	<=38.45	Pass
		4 TX Slots	848.8	30.34	-3.29	24.90	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	29.20	-3.29	23.76	<=38.45	Pass
		2 TX Slots	824.2	26.42	-3.29	20.98	<=38.45	Pass
		3 TX Slots	824.2	24.08	-3.29	18.64	<=38.45	Pass
		4 TX Slots	824.2	22.88	-3.29	17.44	<=38.45	Pass
		1 TX Slot	836.6	26.50	-3.29	21.06	<=38.45	Pass
		2 TX Slots	836.6	26.36	-3.29	20.92	<=38.45	Pass
		3 TX Slots	836.6	27.02	-3.29	21.58	<=38.45	Pass
		4 TX Slots	836.6	22.90	-3.29	17.46	<=38.45	Pass
		1 TX Slot	848.8	26.58	-3.29	21.14	<=38.45	Pass
		2 TX Slots	848.8	26.50	-3.29	21.06	<=38.45	Pass
		3 TX Slots	848.8	24.19	-3.29	18.75	<=38.45	Pass
		4 TX Slots	848.8	22.94	-3.29	17.50	<=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	11.494	0.0139	-2.5 to 2.5	Pass
			NV	12.301	0.0149	-2.5 to 2.5	Pass
			HV	11.817	0.0143	-2.5 to 2.5	Pass
		-30	NV	11.494	0.0139	-2.5 to 2.5	Pass
		-20	NV	11.106	0.0135	-2.5 to 2.5	Pass
		-10	NV	12.624	0.0153	-2.5 to 2.5	Pass
		0	NV	12.043	0.0146	-2.5 to 2.5	Pass
		10	NV	11.752	0.0143	-2.5 to 2.5	Pass
		30	NV	12.075	0.0147	-2.5 to 2.5	Pass
		40	NV	9.234	0.0112	-2.5 to 2.5	Pass
		50	NV	11.332	0.0137	-2.5 to 2.5	Pass
	836.6	20	LV	12.172	0.0145	-2.5 to 2.5	Pass
			NV	11.558	0.0138	-2.5 to 2.5	Pass
			HV	12.139	0.0145	-2.5 to 2.5	Pass
		-30	NV	12.430	0.0149	-2.5 to 2.5	Pass
		-20	NV	12.333	0.0147	-2.5 to 2.5	Pass
		-10	NV	12.850	0.0154	-2.5 to 2.5	Pass
		0	NV	13.269	0.0159	-2.5 to 2.5	Pass
		10	NV	12.075	0.0144	-2.5 to 2.5	Pass
		30	NV	11.235	0.0134	-2.5 to 2.5	Pass
		40	NV	11.009	0.0132	-2.5 to 2.5	Pass
		50	NV	12.075	0.0144	-2.5 to 2.5	Pass
	848.8	20	LV	15.400	0.0181	-2.5 to 2.5	Pass
			NV	12.882	0.0152	-2.5 to 2.5	Pass
			HV	13.592	0.0160	-2.5 to 2.5	Pass
		-30	NV	13.043	0.0154	-2.5 to 2.5	Pass
		-20	NV	12.721	0.0150	-2.5 to 2.5	Pass
		-10	NV	12.785	0.0151	-2.5 to 2.5	Pass
		0	NV	13.915	0.0164	-2.5 to 2.5	Pass
		10	NV	13.560	0.0160	-2.5 to 2.5	Pass
		30	NV	14.819	0.0175	-2.5 to 2.5	Pass
		40	NV	13.334	0.0157	-2.5 to 2.5	Pass
		50	NV	15.788	0.0186	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	19.468	0.0236	-2.5 to 2.5	Pass
			NV	21.083	0.0256	-2.5 to 2.5	Pass
			HV	19.953	0.0242	-2.5 to 2.5	Pass
		-30	NV	20.340	0.0247	-2.5 to 2.5	Pass
		-20	NV	20.728	0.0251	-2.5 to 2.5	Pass
		-10	NV	20.663	0.0251	-2.5 to 2.5	Pass
		0	NV	20.566	0.0250	-2.5 to 2.5	Pass
		10	NV	21.083	0.0256	-2.5 to 2.5	Pass
		30	NV	22.245	0.0270	-2.5 to 2.5	Pass
		40	NV	20.469	0.0248	-2.5 to 2.5	Pass
		50	NV	20.889	0.0253	-2.5 to 2.5	Pass
	836.6	20	LV	19.178	0.0229	-2.5 to 2.5	Pass
			NV	19.791	0.0237	-2.5 to 2.5	Pass

			HV	19.888	0.0238	-2.5 to 2.5	Pass
		-30	NV	19.888	0.0238	-2.5 to 2.5	Pass
		-20	NV	17.854	0.0213	-2.5 to 2.5	Pass
		-10	NV	18.952	0.0227	-2.5 to 2.5	Pass
		0	NV	20.114	0.0240	-2.5 to 2.5	Pass
		10	NV	18.823	0.0225	-2.5 to 2.5	Pass
		30	NV	20.405	0.0244	-2.5 to 2.5	Pass
		40	NV	20.631	0.0247	-2.5 to 2.5	Pass
		50	NV	20.340	0.0243	-2.5 to 2.5	Pass
	848.8	20	LV	18.823	0.0222	-2.5 to 2.5	Pass
			NV	20.760	0.0245	-2.5 to 2.5	Pass
			HV	20.695	0.0244	-2.5 to 2.5	Pass
		-30	NV	21.050	0.0248	-2.5 to 2.5	Pass
		-20	NV	19.630	0.0231	-2.5 to 2.5	Pass
		-10	NV	17.208	0.0203	-2.5 to 2.5	Pass
		0	NV	17.596	0.0207	-2.5 to 2.5	Pass
		10	NV	20.598	0.0243	-2.5 to 2.5	Pass
		30	NV	19.759	0.0233	-2.5 to 2.5	Pass
		40	NV	18.952	0.0223	-2.5 to 2.5	Pass
		50	NV	18.726	0.0221	-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	0.243	/	Pass
			836.6	0.242	/	Pass
			848.8	0.248	/	Pass
	EGPRS	1 TX Slot	824.2	0.238	/	Pass
			836.6	0.230	/	Pass
			848.8	0.237	/	Pass

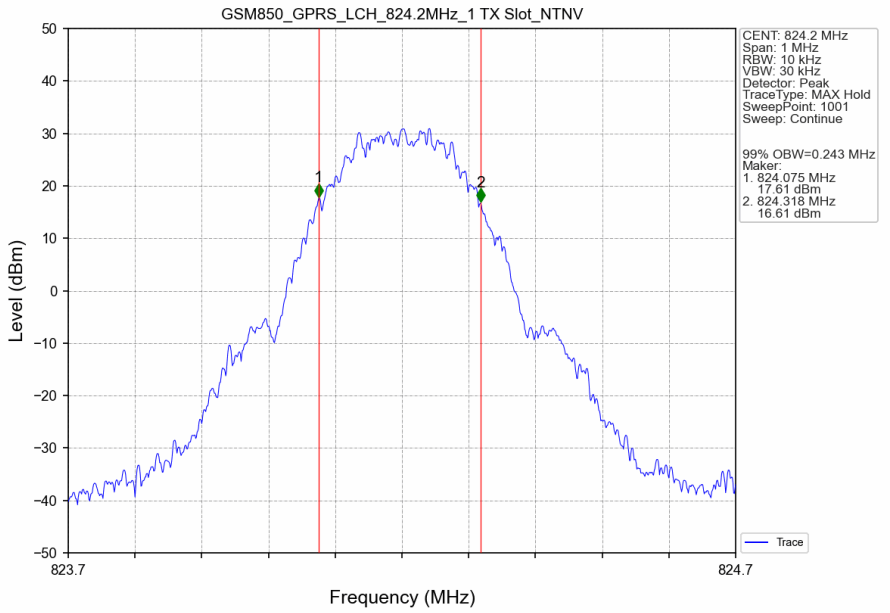
3.1.2 GSM850_XDB

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.322	/	Pass
			836.6	0.313	/	Pass
			848.8	0.317	/	Pass
	EGPRS	1 TX Slot	824.2	0.295	/	Pass
			836.6	0.295	/	Pass
			848.8	0.289	/	Pass

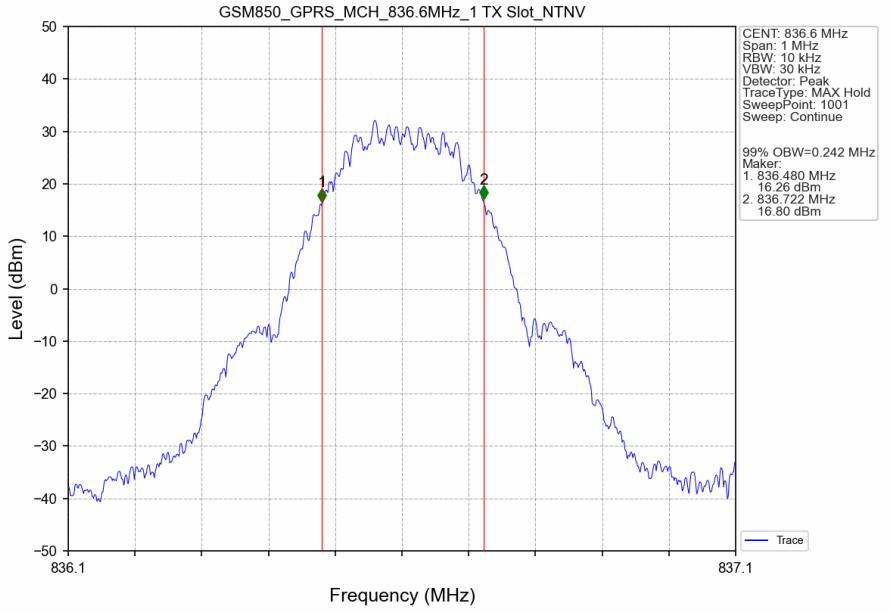
3.2 Test Graph

3.2.1 GSM850_OBW

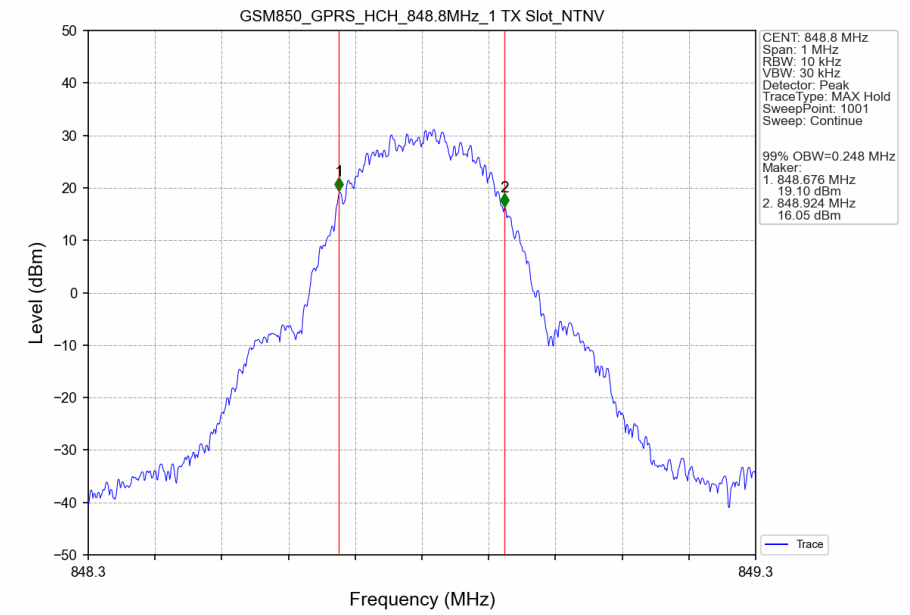
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



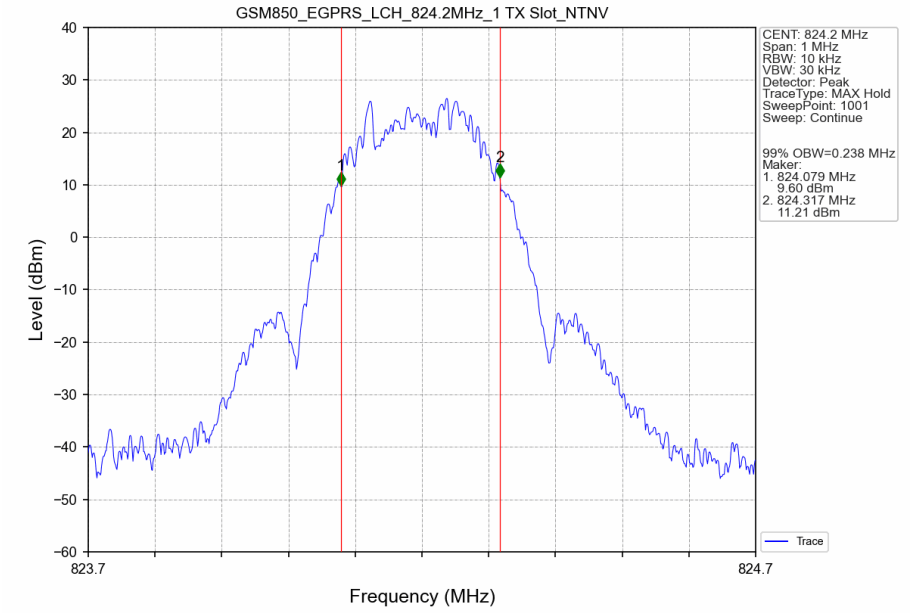
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



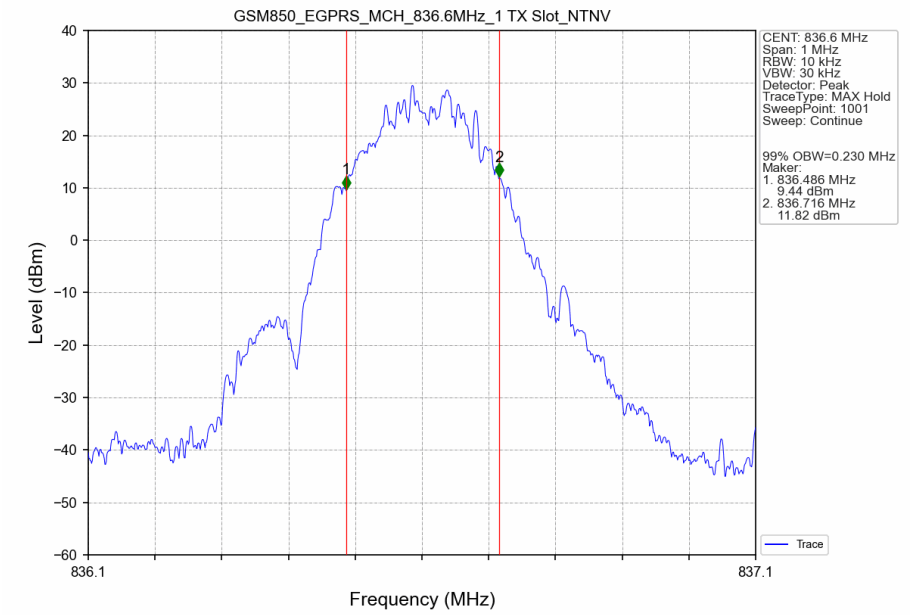
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



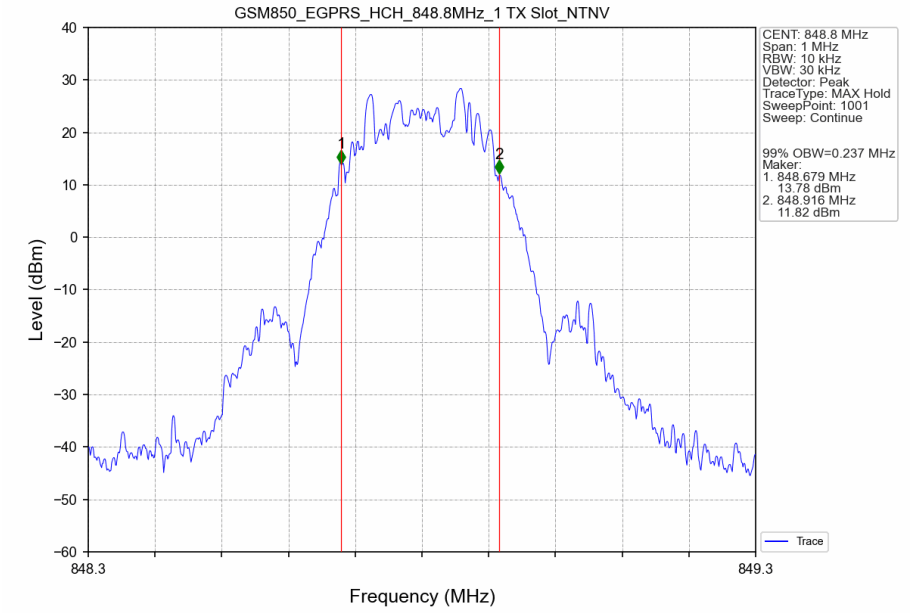
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV

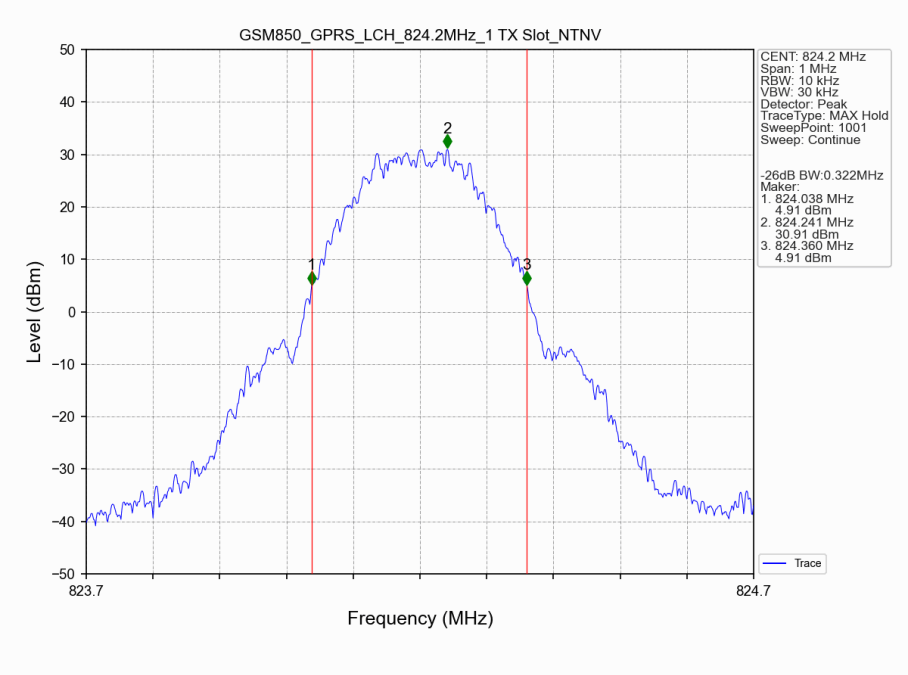


GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

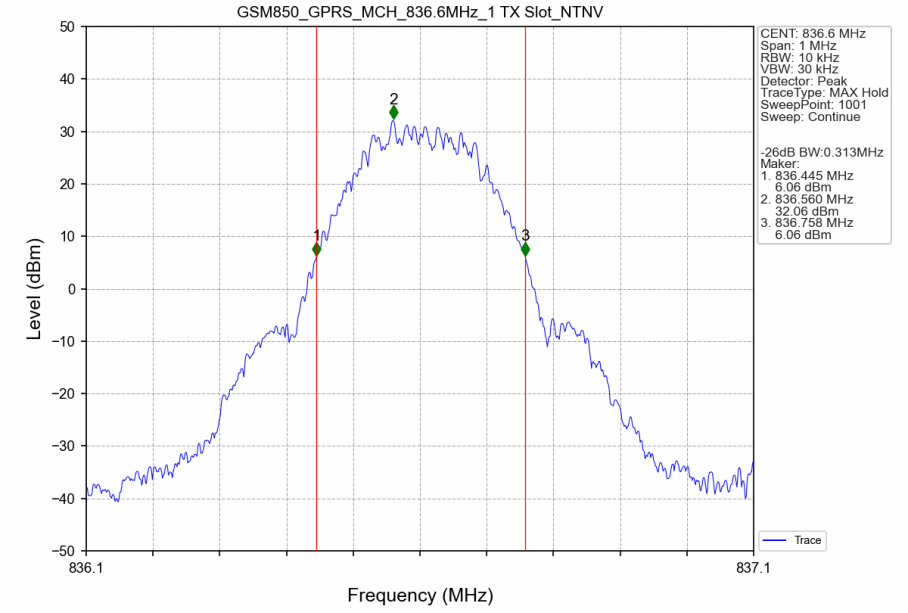


3.2.2 GSM850_XDB

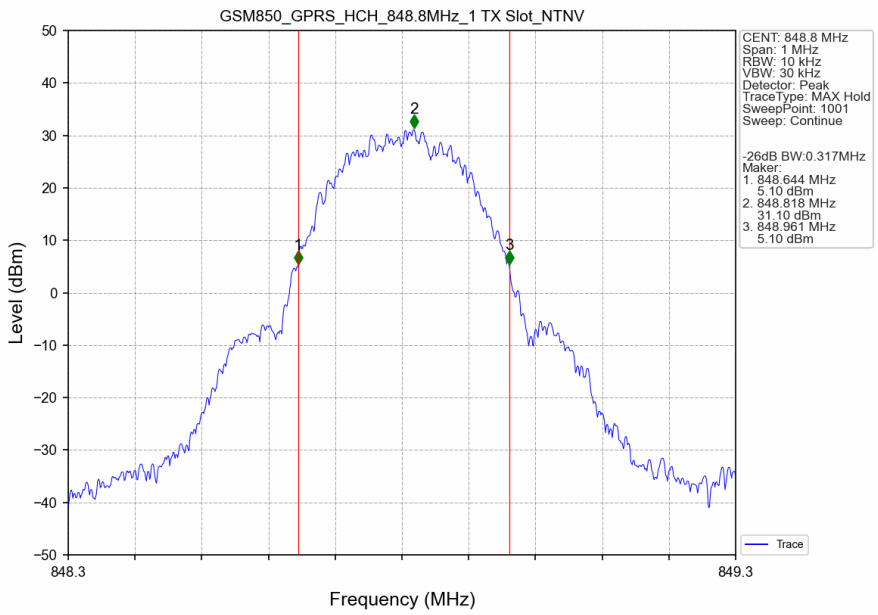
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



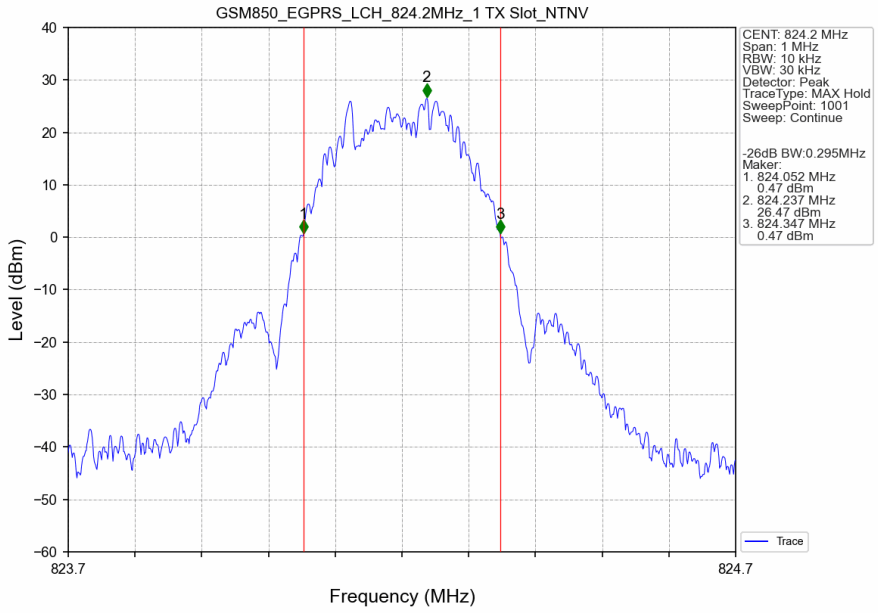
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



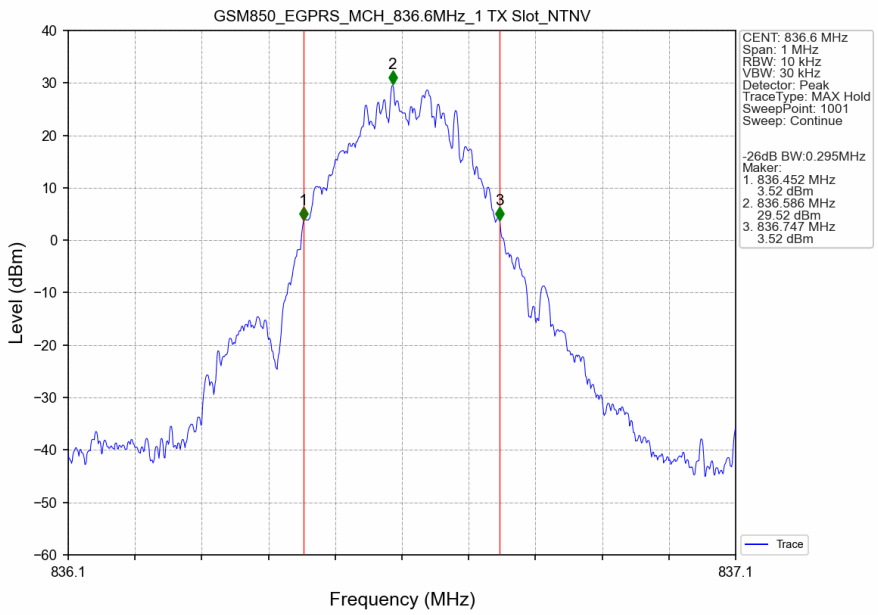
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



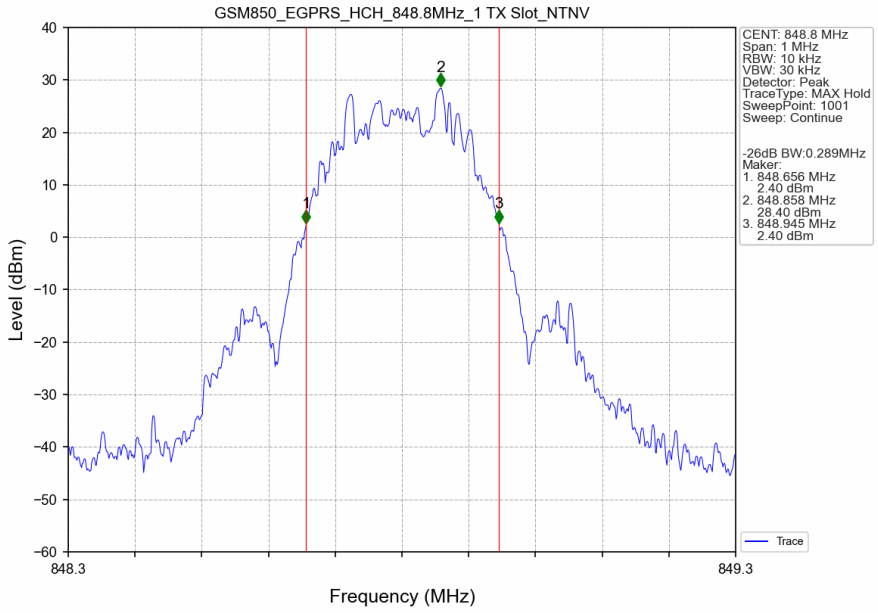
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

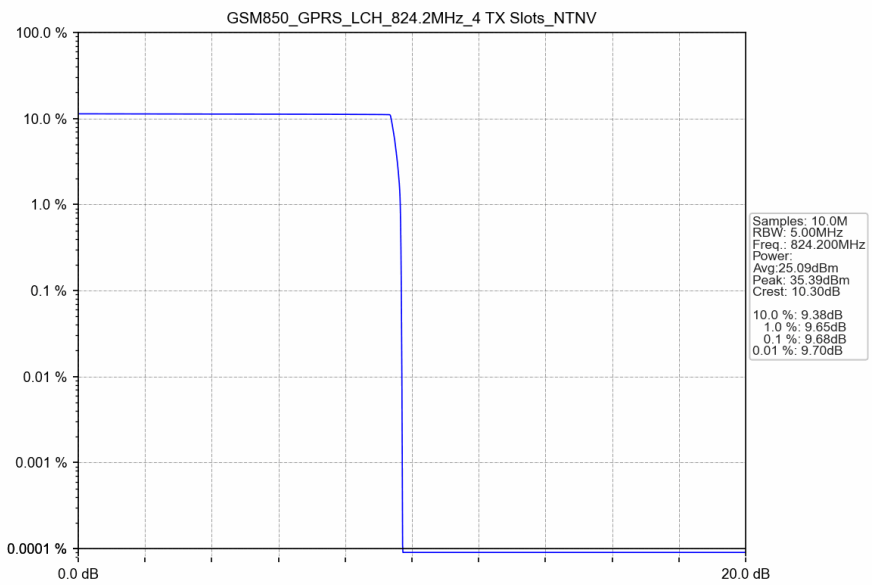
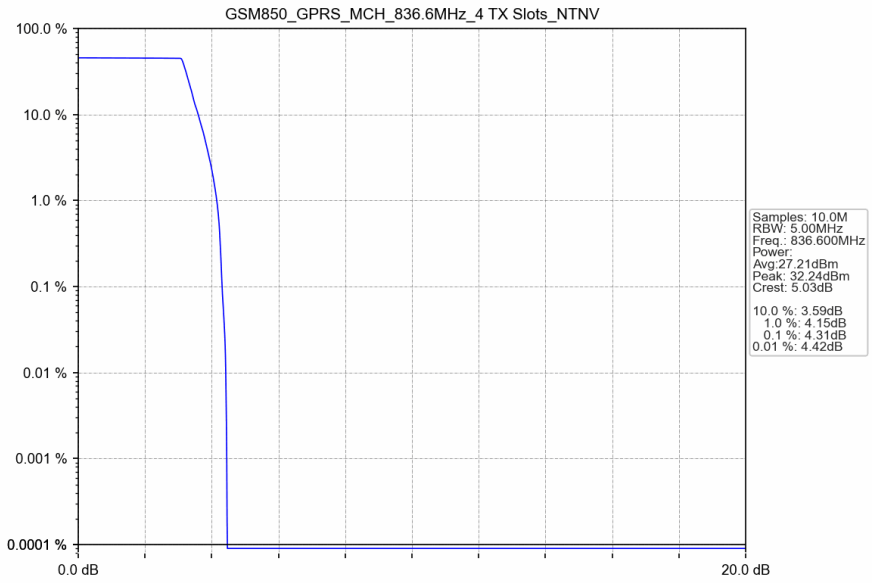
4.1 Test Result

4.1.1 GSM850

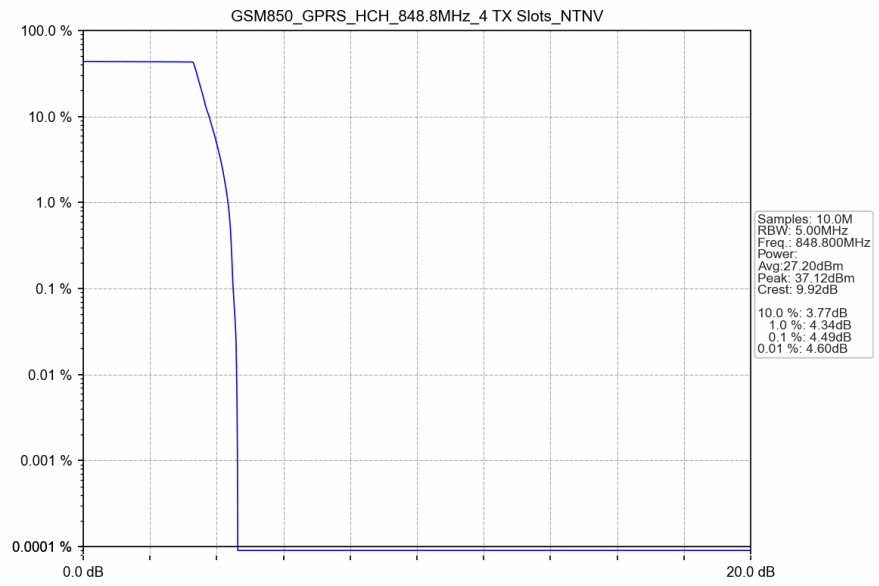
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.68	<=13	Pass
			836.6	4.31	<=13	Pass
			848.8	4.49	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.98	<=13	Pass
			836.6	11.33	<=13	Pass
			848.8	11.46	<=13	Pass

4.2 Test Graph

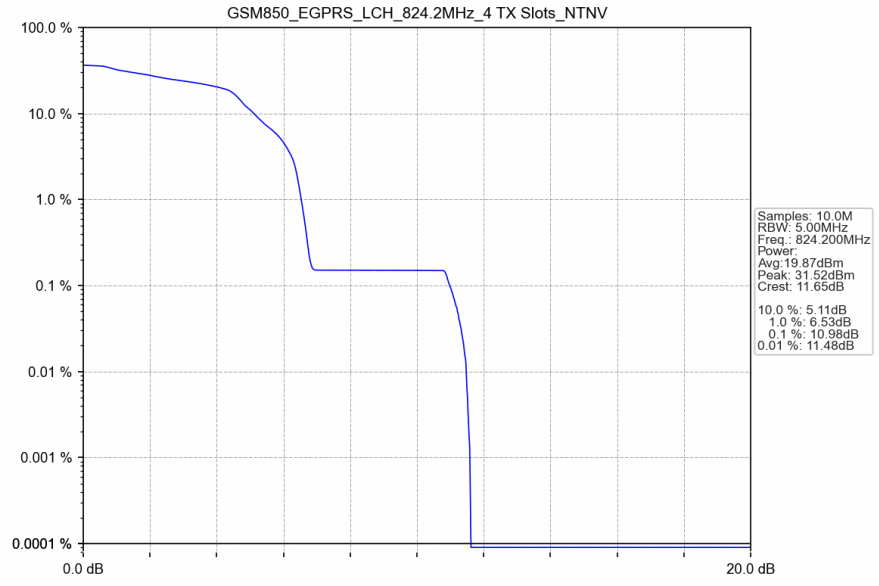
4.2.1 GSM850

GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV

GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV


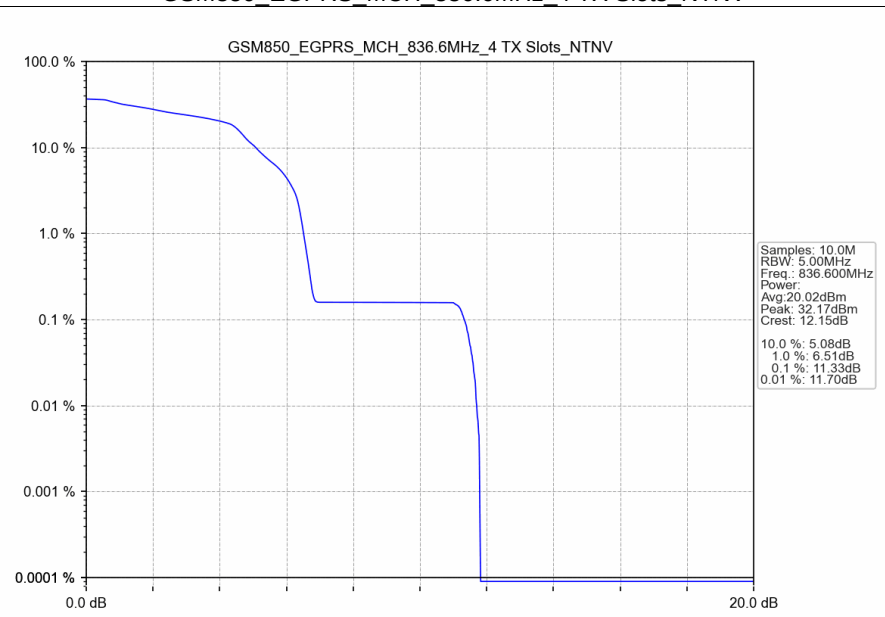
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



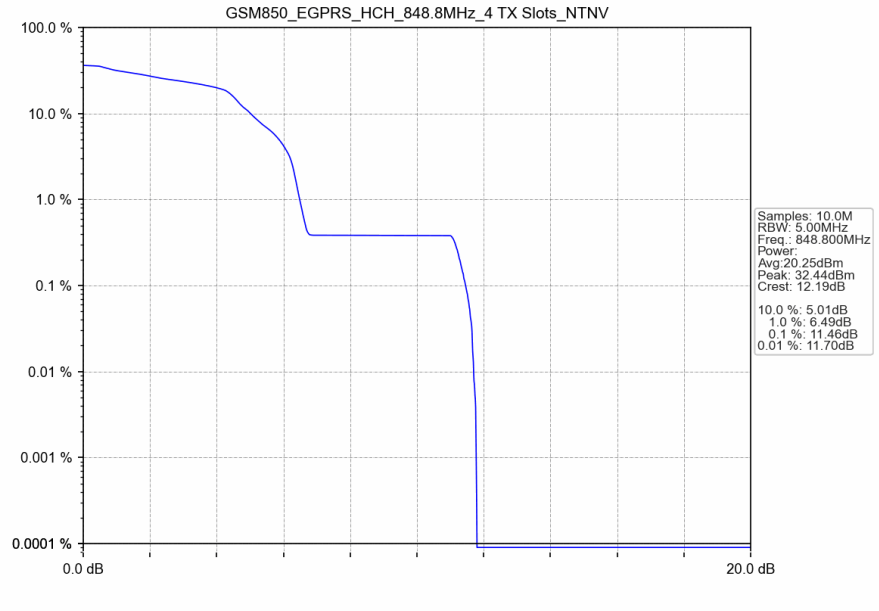
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



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

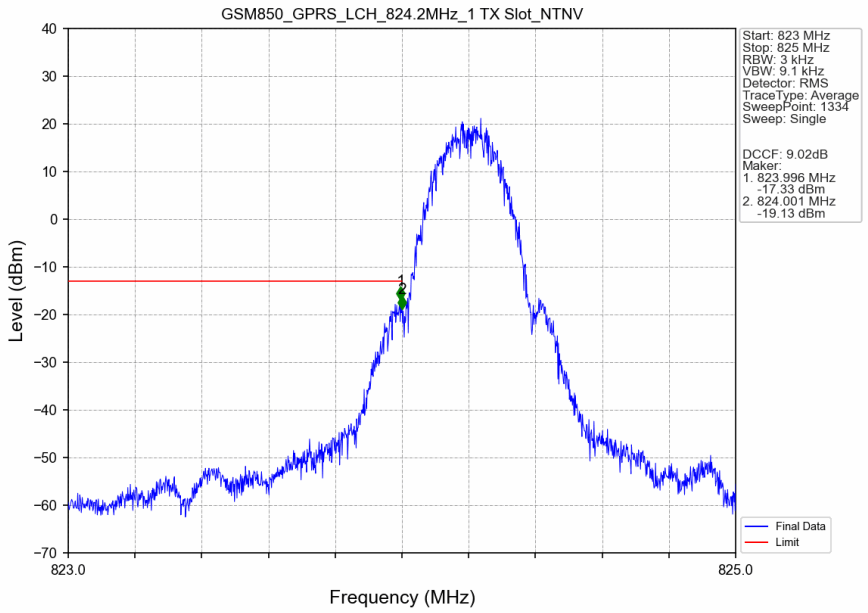
5.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	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

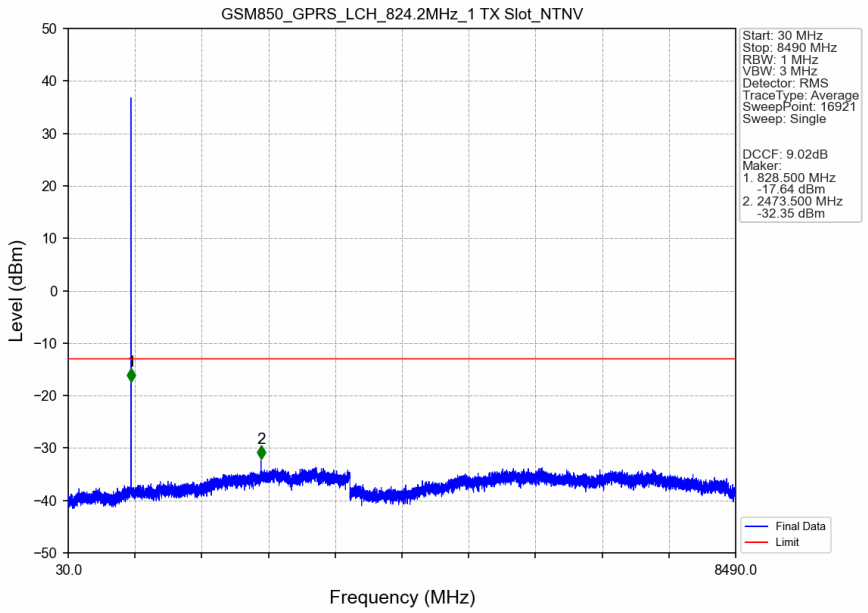
5.2 Test Graph

5.2.1 GSM850

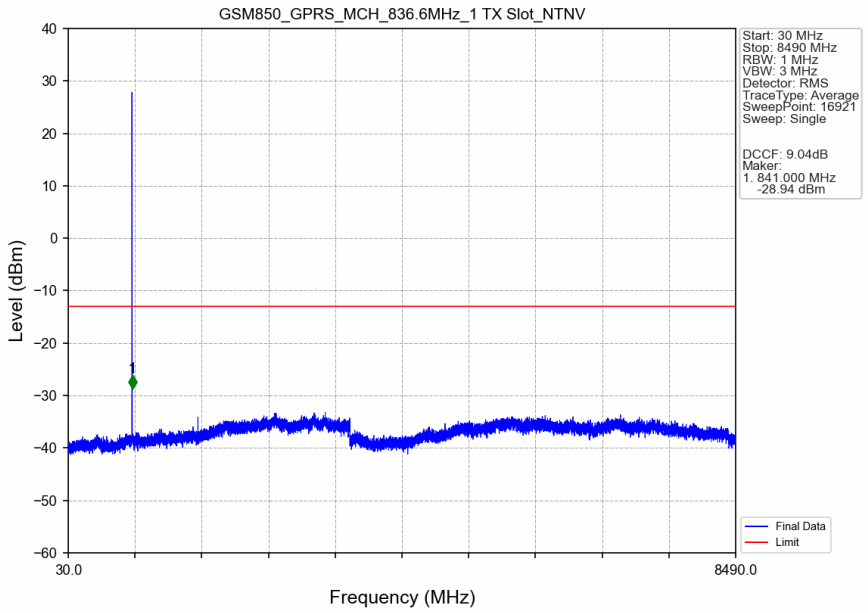
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



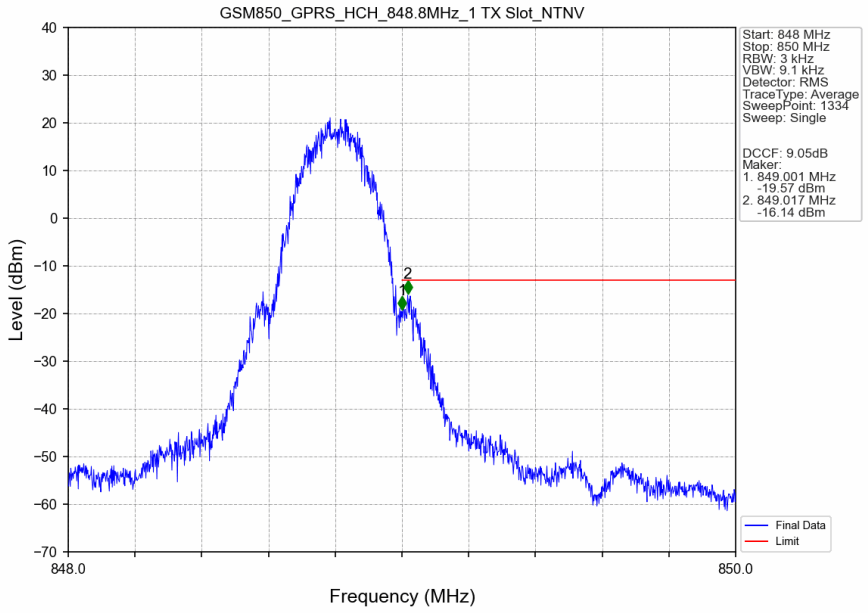
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



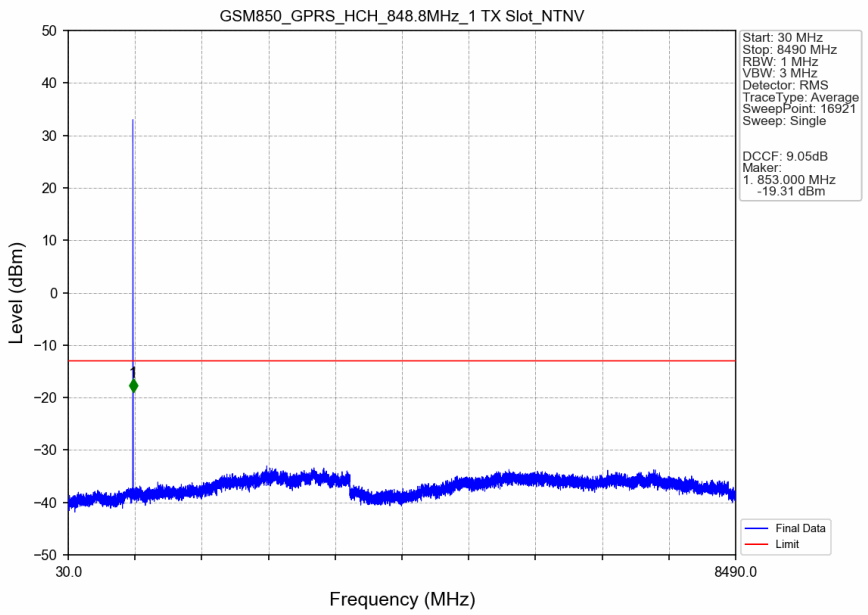
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



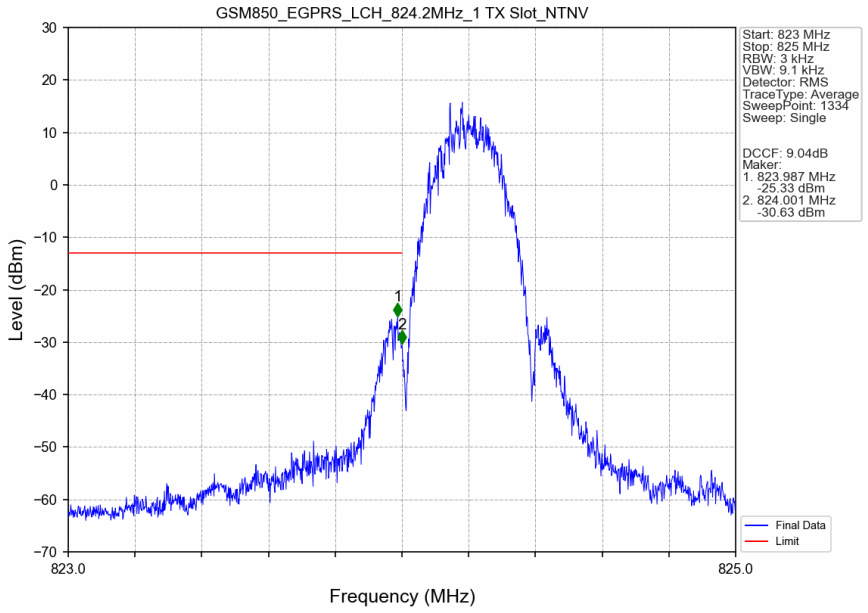
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



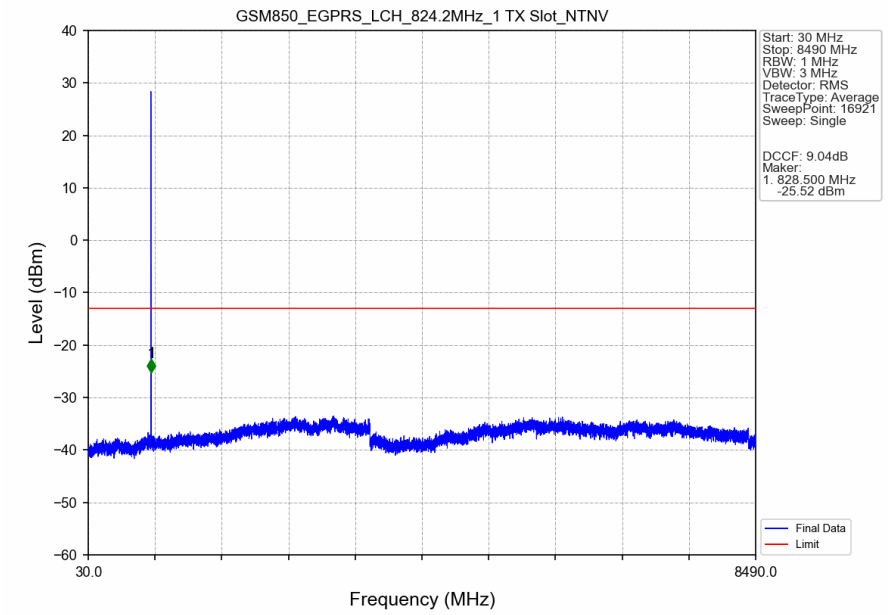
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



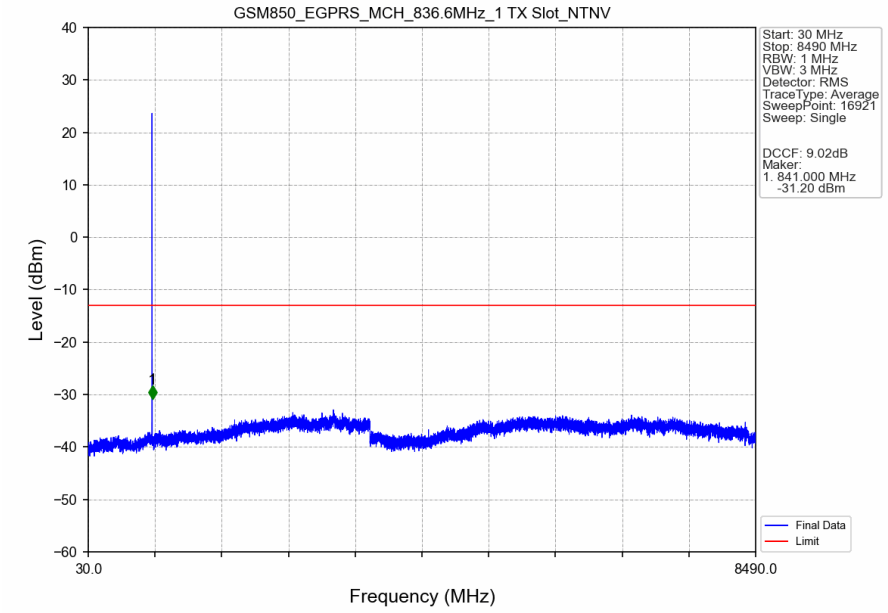
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



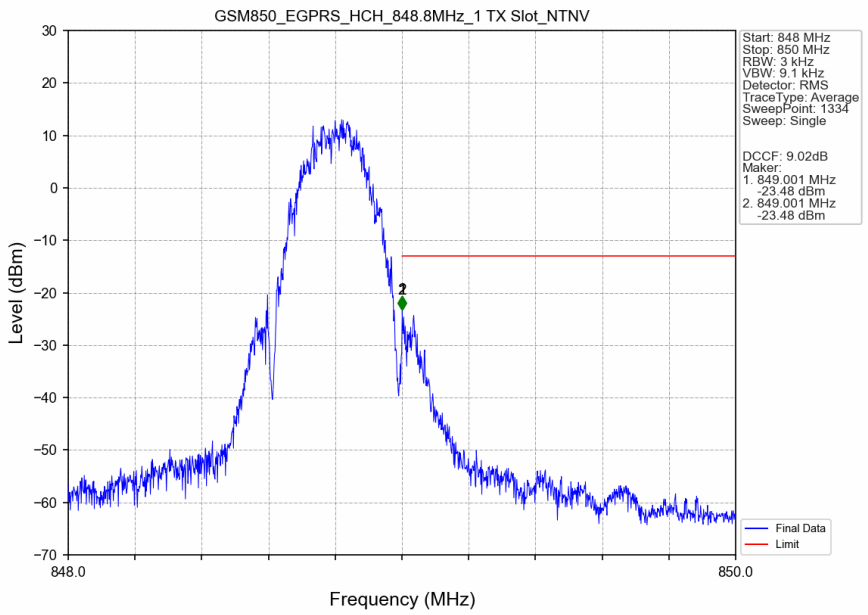
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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