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	33.67	-3.29	28.23	<=38.45	Pass
		2 TX Slots	824.2	33.45	-3.29	28.01	<=38.45	Pass
		3 TX Slots	824.2	31.32	-3.29	25.88	<=38.45	Pass
		4 TX Slots	824.2	29.98	-3.29	24.54	<=38.45	Pass
		1 TX Slot	836.6	33.71	-3.29	28.27	<=38.45	Pass
		2 TX Slots	836.6	33.52	-3.29	28.08	<=38.45	Pass
		3 TX Slots	836.6	31.41	-3.29	25.97	<=38.45	Pass
		4 TX Slots	836.6	30.12	-3.29	24.68	<=38.45	Pass
		1 TX Slot	848.8	33.89	-3.29	28.45	<=38.45	Pass
		2 TX Slots	848.8	33.71	-3.29	28.27	<=38.45	Pass
		3 TX Slots	848.8	31.41	-3.29	25.97	<=38.45	Pass
		4 TX Slots	848.8	30.15	-3.29	24.71	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.19	-3.29	20.75	<=38.45	Pass
		2 TX Slots	824.2	26.05	-3.29	20.61	<=38.45	Pass
		3 TX Slots	824.2	23.92	-3.29	18.48	<=38.45	Pass
		4 TX Slots	824.2	22.74	-3.29	17.30	<=38.45	Pass
		1 TX Slot	836.6	26.49	-3.29	21.05	<=38.45	Pass
		2 TX Slots	836.6	26.26	-3.29	20.82	<=38.45	Pass
		3 TX Slots	836.6	23.85	-3.29	18.41	<=38.45	Pass
		4 TX Slots	836.6	22.66	-3.29	17.22	<=38.45	Pass
		1 TX Slot	848.8	26.34	-3.29	20.90	<=38.45	Pass
		2 TX Slots	848.8	26.21	-3.29	20.77	<=38.45	Pass
		3 TX Slots	848.8	24.10	-3.29	18.66	<=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	10.493	0.0127	-2.5 to 2.5	Pass
			NV	9.363	0.0114	-2.5 to 2.5	Pass
			HV	9.912	0.0120	-2.5 to 2.5	Pass
		-30	NV	9.040	0.0110	-2.5 to 2.5	Pass
		-20	NV	11.784	0.0143	-2.5 to 2.5	Pass
		-10	NV	9.137	0.0111	-2.5 to 2.5	Pass
		0	NV	9.234	0.0112	-2.5 to 2.5	Pass
		10	NV	9.557	0.0116	-2.5 to 2.5	Pass
		30	NV	13.237	0.0161	-2.5 to 2.5	Pass
		40	NV	11.139	0.0135	-2.5 to 2.5	Pass
		50	NV	8.362	0.0101	-2.5 to 2.5	Pass
	836.6	20	LV	13.076	0.0156	-2.5 to 2.5	Pass
			NV	12.010	0.0144	-2.5 to 2.5	Pass
			HV	14.206	0.0170	-2.5 to 2.5	Pass
		-30	NV	14.496	0.0173	-2.5 to 2.5	Pass
		-20	NV	13.721	0.0164	-2.5 to 2.5	Pass
		-10	NV	13.366	0.0160	-2.5 to 2.5	Pass
		0	NV	14.916	0.0178	-2.5 to 2.5	Pass
		10	NV	14.399	0.0172	-2.5 to 2.5	Pass
		30	NV	13.818	0.0165	-2.5 to 2.5	Pass
		40	NV	12.817	0.0153	-2.5 to 2.5	Pass
		50	NV	13.237	0.0158	-2.5 to 2.5	Pass
	848.8	20	LV	11.946	0.0141	-2.5 to 2.5	Pass
			NV	11.978	0.0141	-2.5 to 2.5	Pass
			HV	12.721	0.0150	-2.5 to 2.5	Pass
		-30	NV	13.431	0.0158	-2.5 to 2.5	Pass
		-20	NV	13.173	0.0155	-2.5 to 2.5	Pass
		-10	NV	11.526	0.0136	-2.5 to 2.5	Pass
		0	NV	11.397	0.0134	-2.5 to 2.5	Pass
		10	NV	11.042	0.0130	-2.5 to 2.5	Pass
		30	NV	12.301	0.0145	-2.5 to 2.5	Pass
		40	NV	13.043	0.0154	-2.5 to 2.5	Pass
		50	NV	10.719	0.0126	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	18.532	0.0225	-2.5 to 2.5	Pass
			NV	20.437	0.0248	-2.5 to 2.5	Pass
			HV	19.985	0.0242	-2.5 to 2.5	Pass
		-30	NV	20.179	0.0245	-2.5 to 2.5	Pass
		-20	NV	16.111	0.0195	-2.5 to 2.5	Pass
		-10	NV	19.920	0.0242	-2.5 to 2.5	Pass
		0	NV	18.080	0.0219	-2.5 to 2.5	Pass
		10	NV	17.854	0.0217	-2.5 to 2.5	Pass
		30	NV	18.887	0.0229	-2.5 to 2.5	Pass
		40	NV	19.791	0.0240	-2.5 to 2.5	Pass
		50	NV	18.597	0.0226	-2.5 to 2.5	Pass
	836.6	20	LV	19.694	0.0235	-2.5 to 2.5	Pass
			NV	19.178	0.0229	-2.5 to 2.5	Pass

			HV	19.533	0.0233	-2.5 to 2.5	Pass
		-30	NV	19.985	0.0239	-2.5 to 2.5	Pass
		-20	NV	20.082	0.0240	-2.5 to 2.5	Pass
		-10	NV	18.597	0.0222	-2.5 to 2.5	Pass
		0	NV	19.501	0.0233	-2.5 to 2.5	Pass
		10	NV	19.598	0.0234	-2.5 to 2.5	Pass
		30	NV	20.372	0.0244	-2.5 to 2.5	Pass
		40	NV	17.047	0.0204	-2.5 to 2.5	Pass
		50	NV	18.435	0.0220	-2.5 to 2.5	Pass
	848.8	20	LV	20.211	0.0238	-2.5 to 2.5	Pass
			NV	20.050	0.0236	-2.5 to 2.5	Pass
			HV	18.500	0.0218	-2.5 to 2.5	Pass
		-30	NV	17.564	0.0207	-2.5 to 2.5	Pass
		-20	NV	19.307	0.0227	-2.5 to 2.5	Pass
		-10	NV	18.306	0.0216	-2.5 to 2.5	Pass
		0	NV	18.080	0.0213	-2.5 to 2.5	Pass
		10	NV	16.821	0.0198	-2.5 to 2.5	Pass
		30	NV	18.564	0.0219	-2.5 to 2.5	Pass
		40	NV	18.661	0.0220	-2.5 to 2.5	Pass
		50	NV	19.049	0.0224	-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	0.245	/	Pass
			836.6	0.247	/	Pass
			848.8	0.246	/	Pass
	EGPRS	1 TX Slot	824.2	0.244	/	Pass
			836.6	0.233	/	Pass
			848.8	0.234	/	Pass

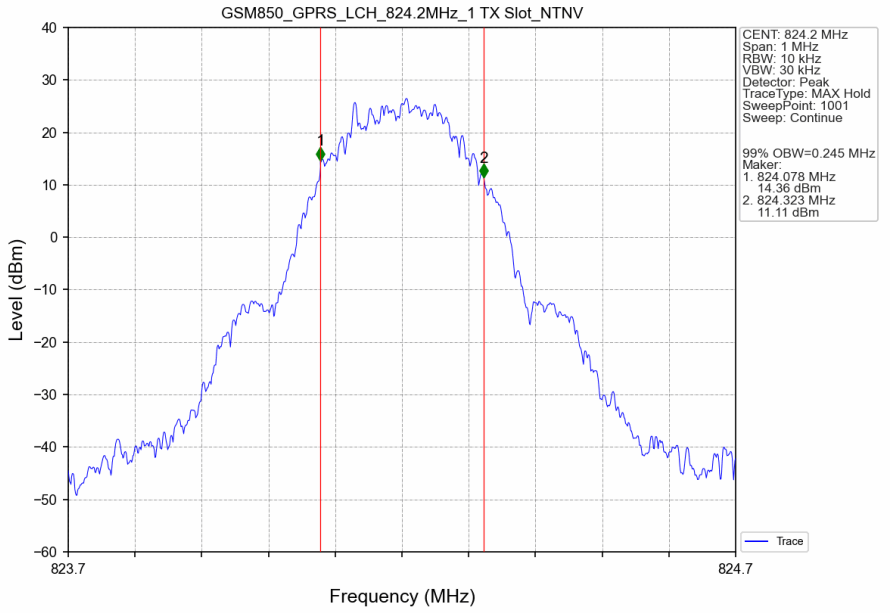
3.1.2 GSM850_XDB

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.318	/	Pass
			836.6	0.308	/	Pass
			848.8	0.314	/	Pass
	EGPRS	1 TX Slot	824.2	0.297	/	Pass
			836.6	0.301	/	Pass
			848.8	0.279	/	Pass

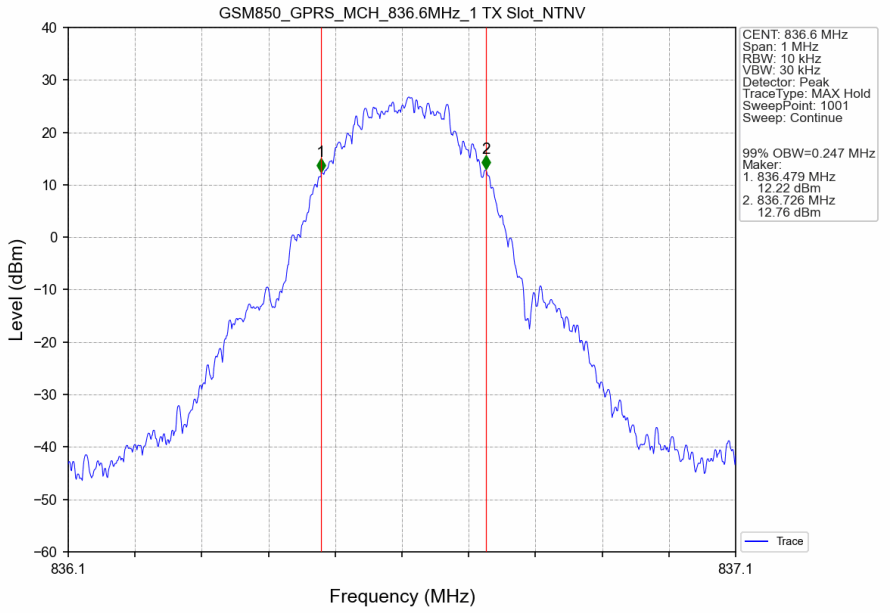
3.2 Test Graph

3.2.1 GSM850_OBW

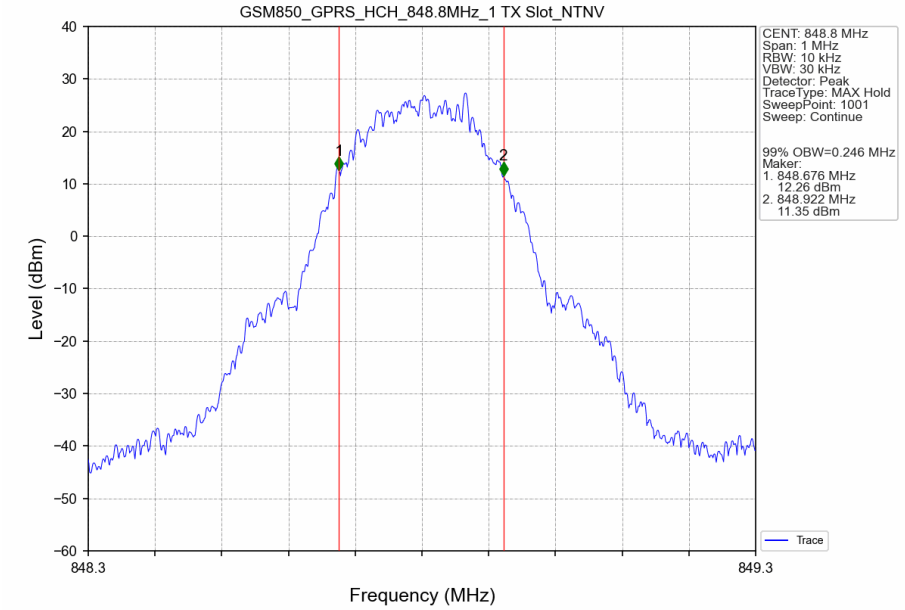
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



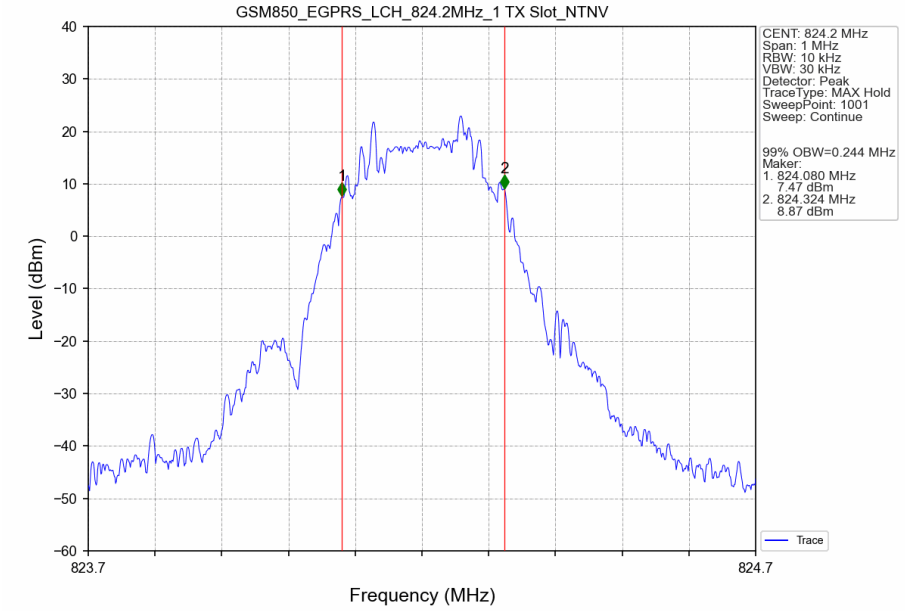
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



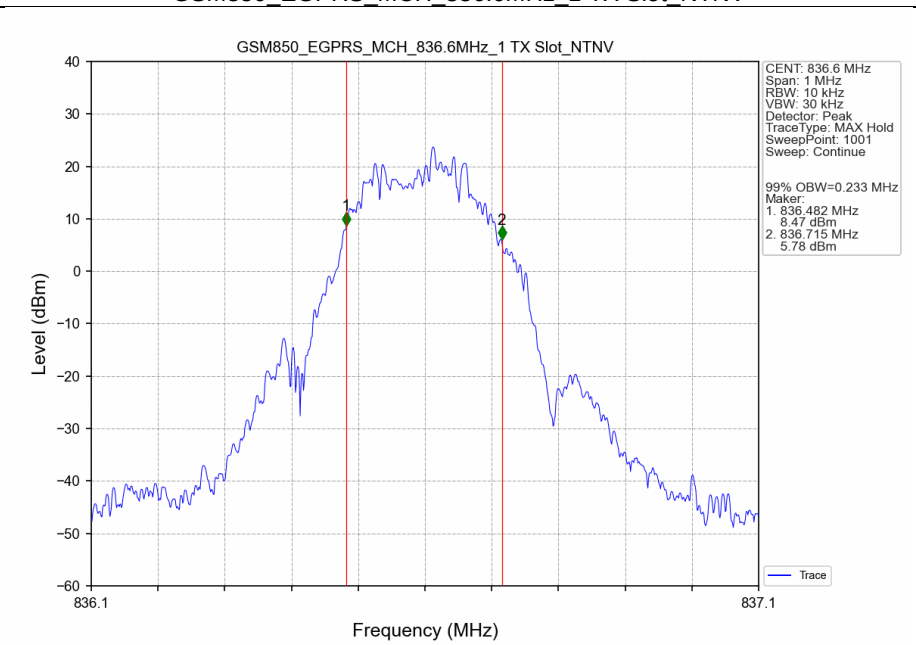
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



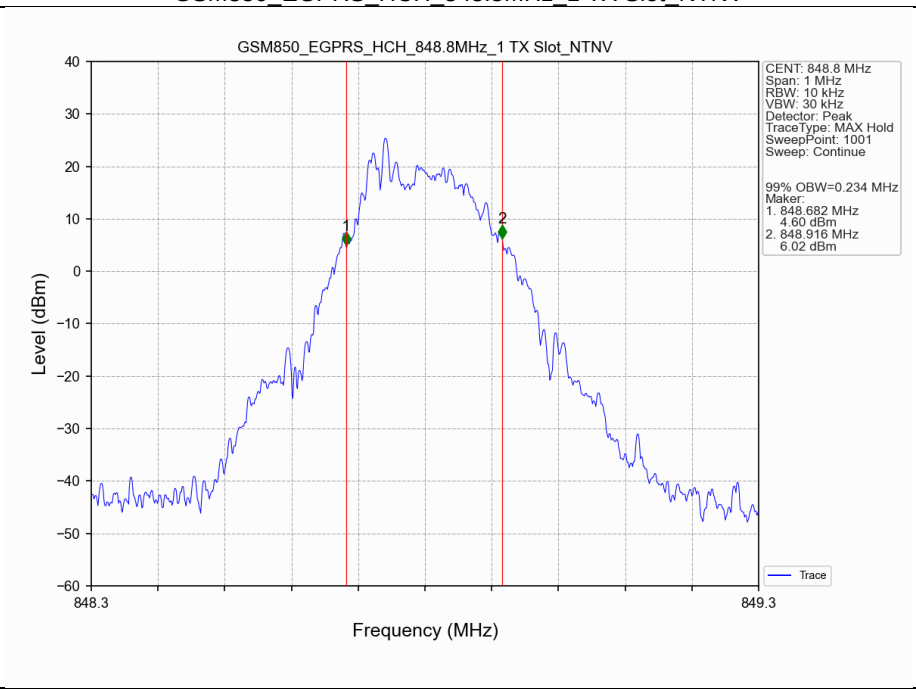
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV

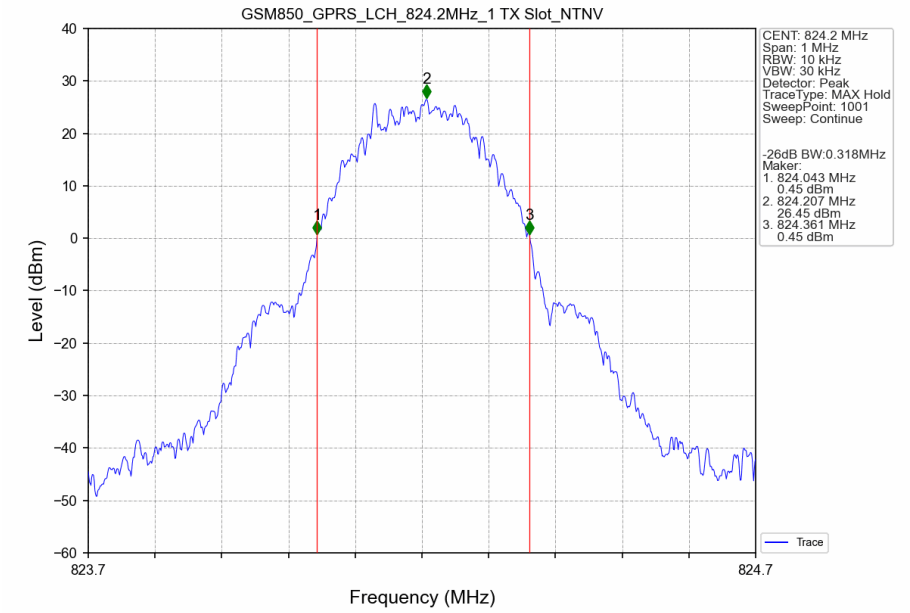


GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

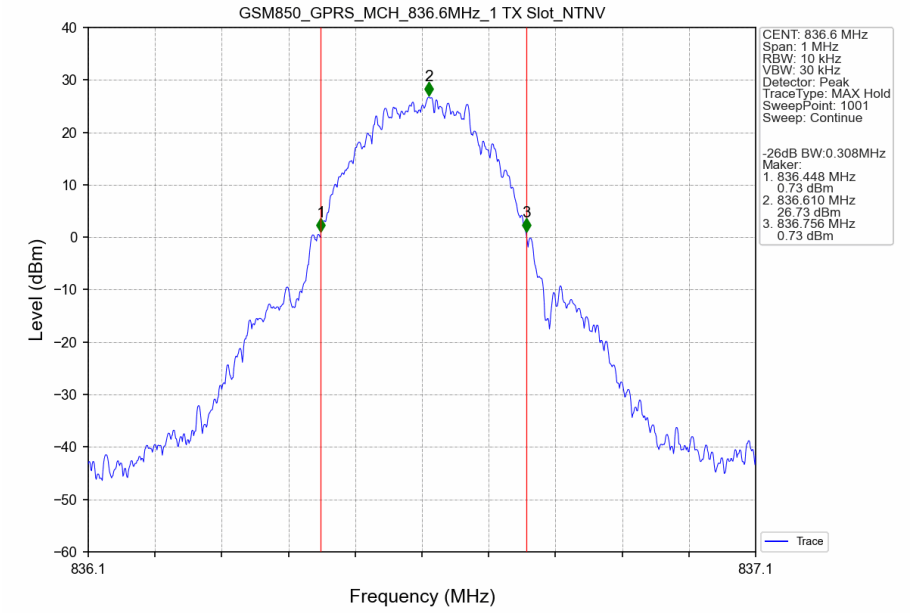


3.2.2 GSM850_XDB

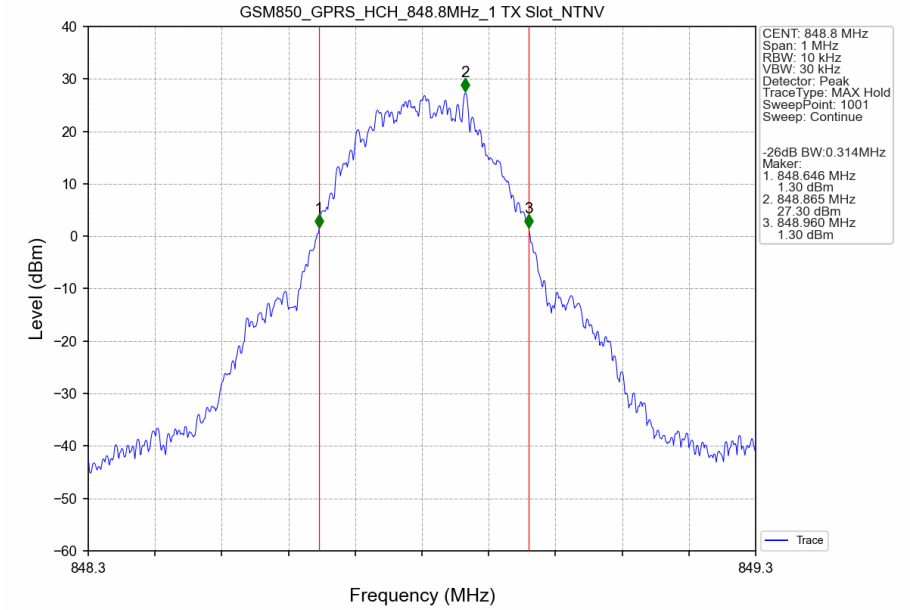
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



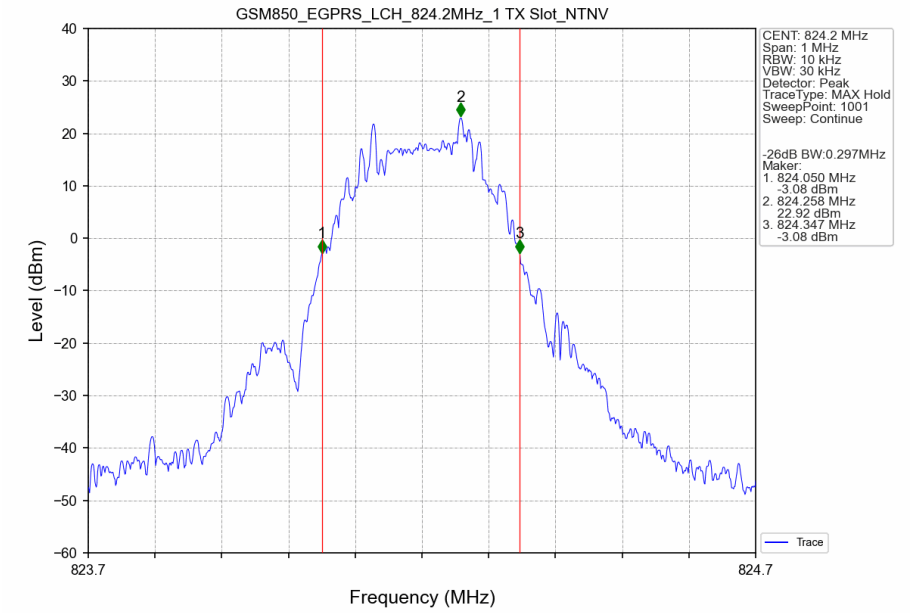
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



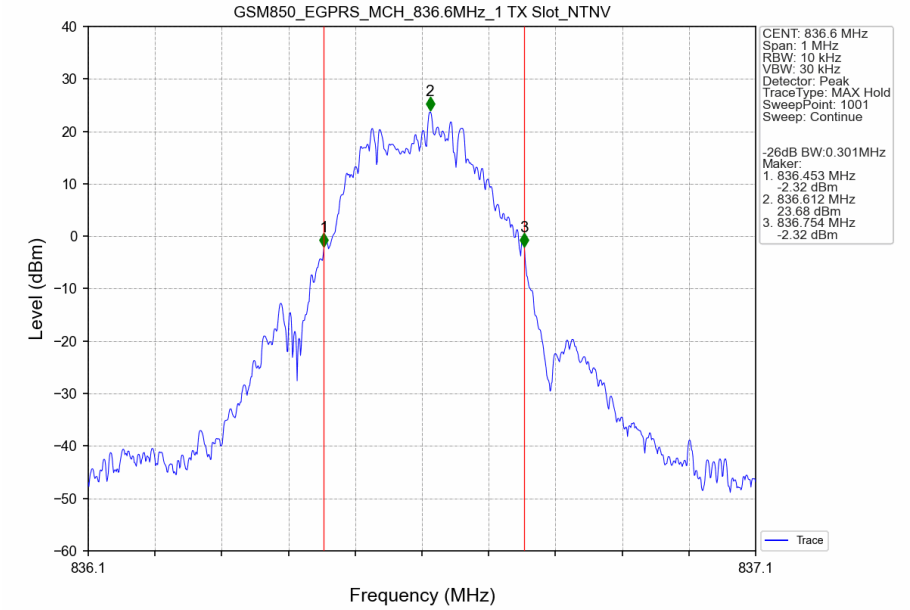
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



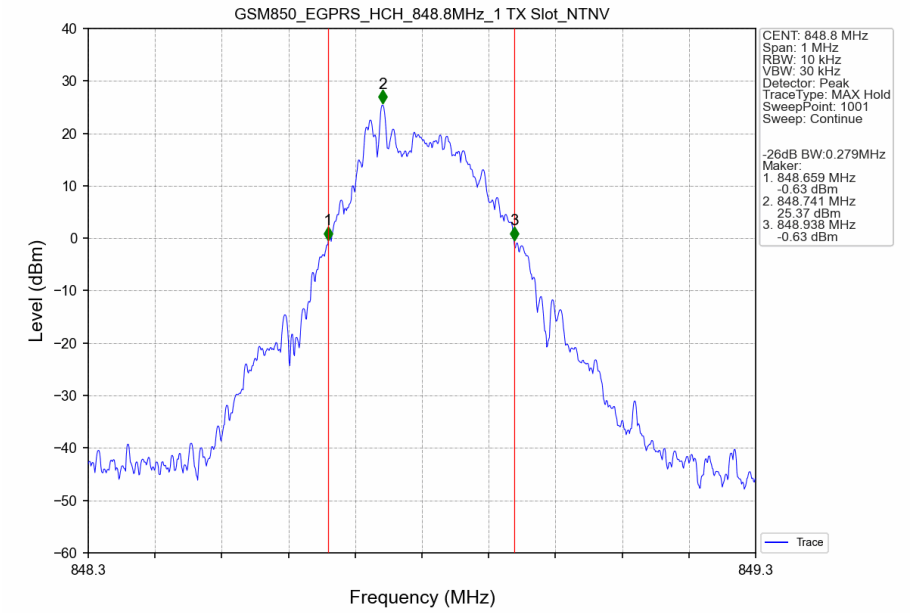
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

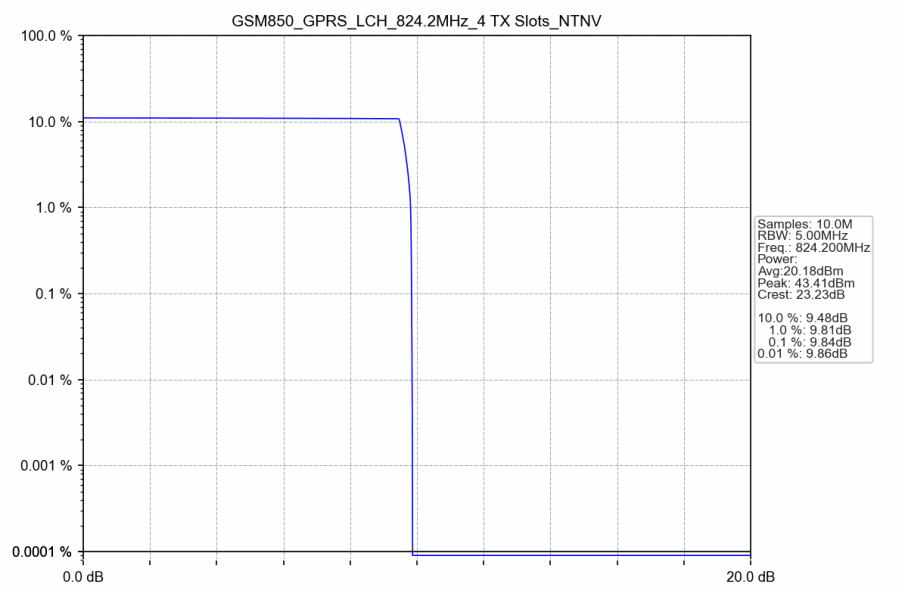
4.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.84	<=13	Pass
			836.6	4.49	<=13	Pass
			848.8	4.54	<=13	Pass
	EGPRS	4 TX Slots	824.2	11.06	<=13	Pass
			836.6	11.35	<=13	Pass
			848.8	11.32	<=13	Pass

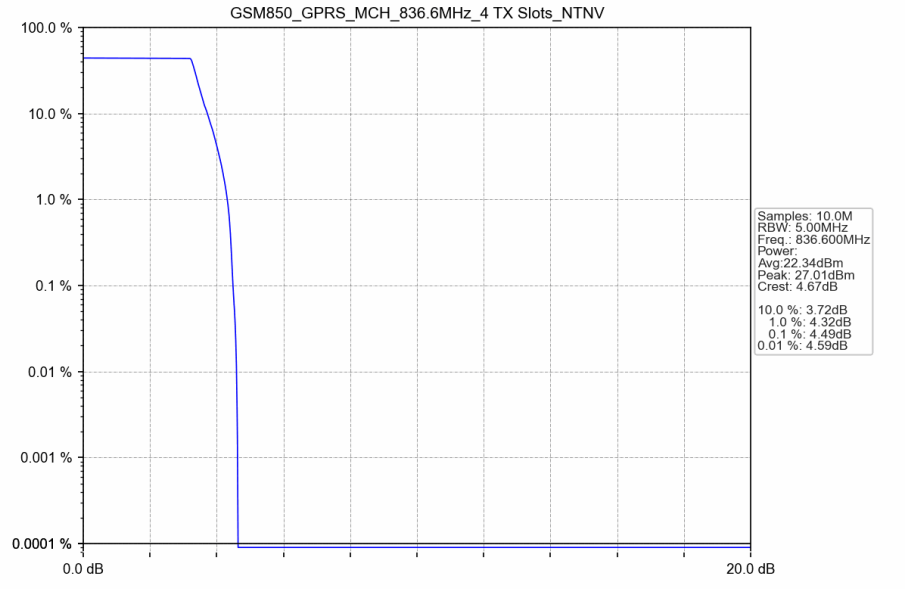
4.2 Test Graph

4.2.1 GSM850

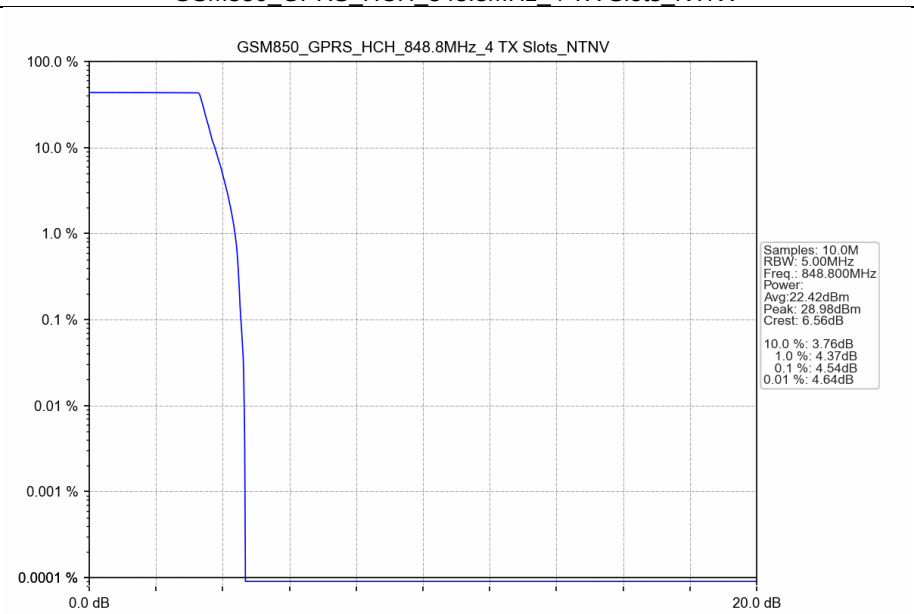
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



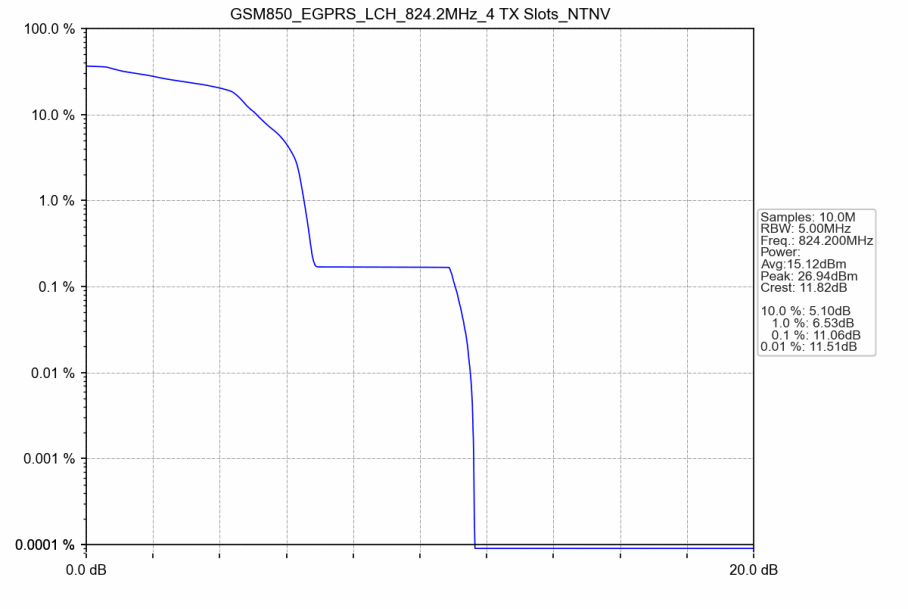
GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



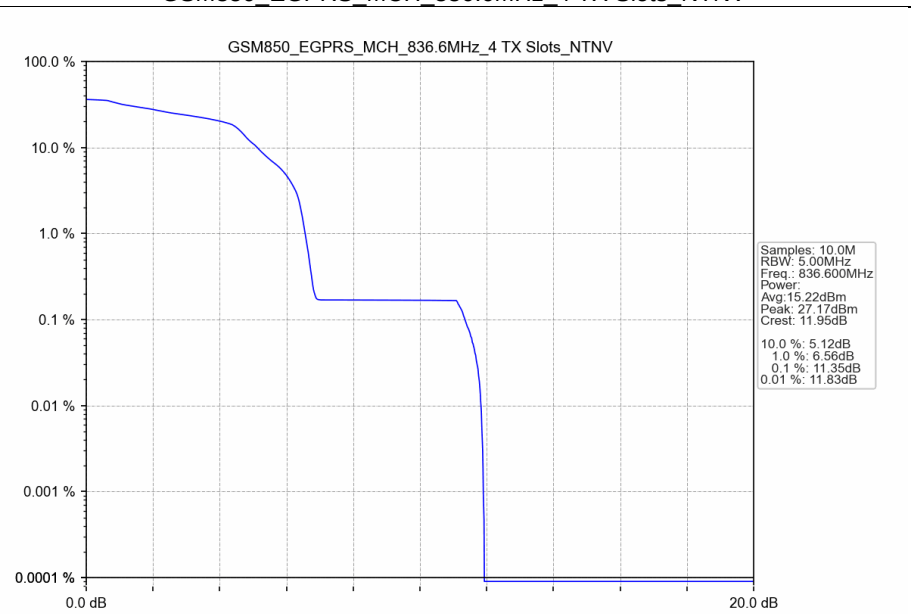
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



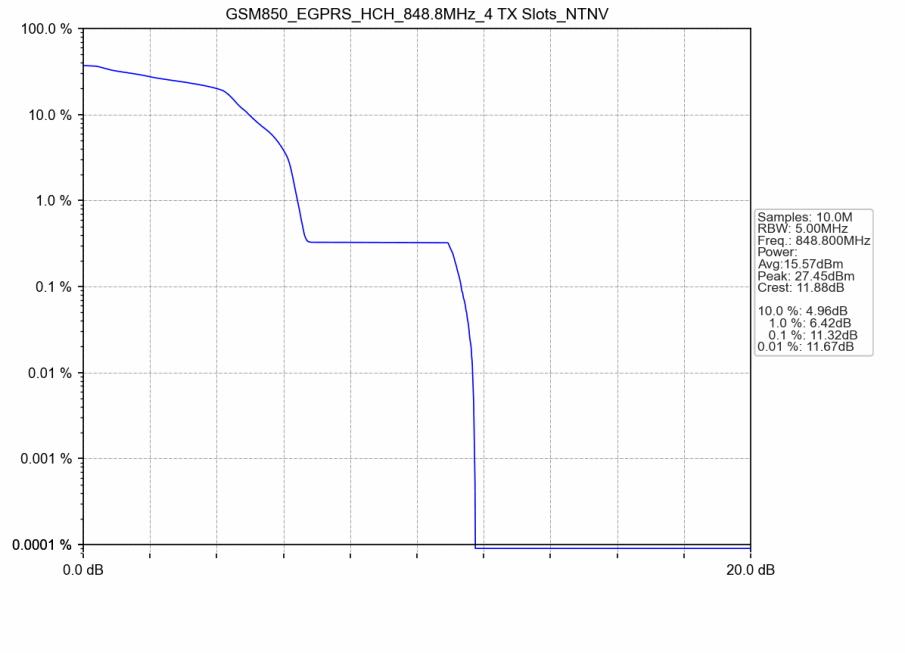
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



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

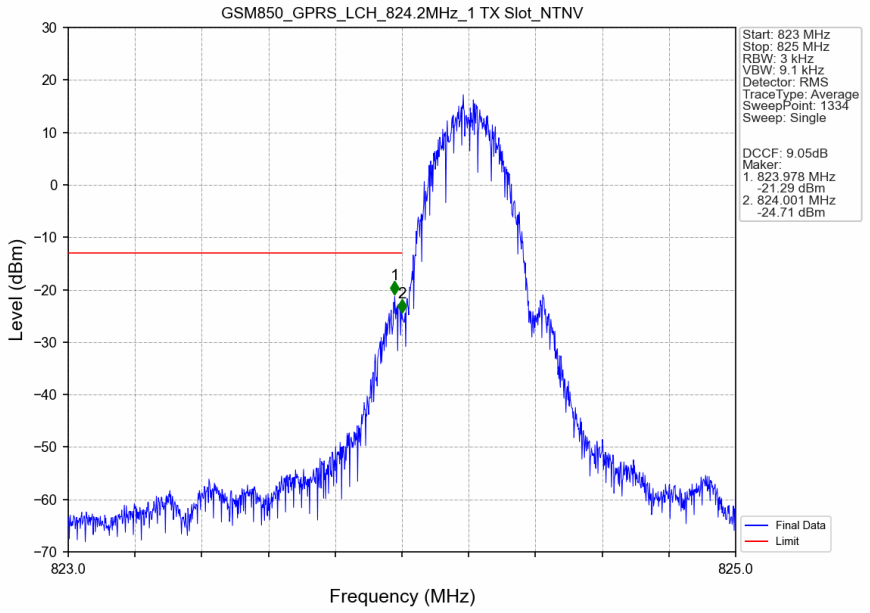
5.1.1 GSM850

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

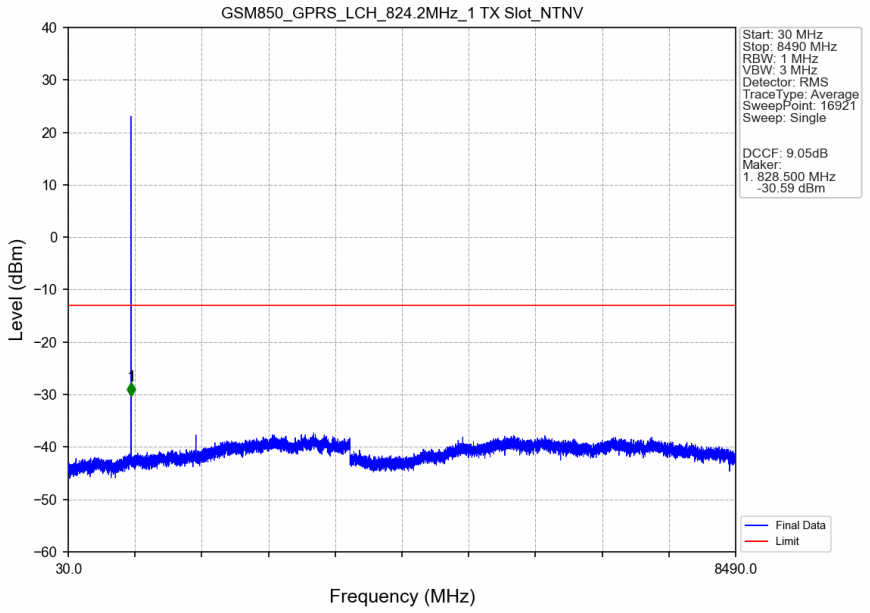
5.2 Test Graph

5.2.1 GSM850

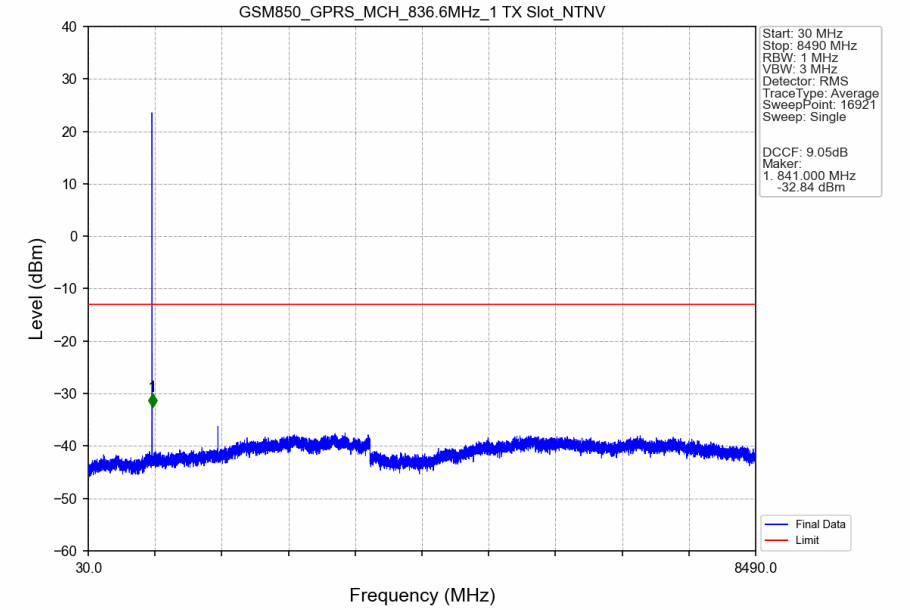
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



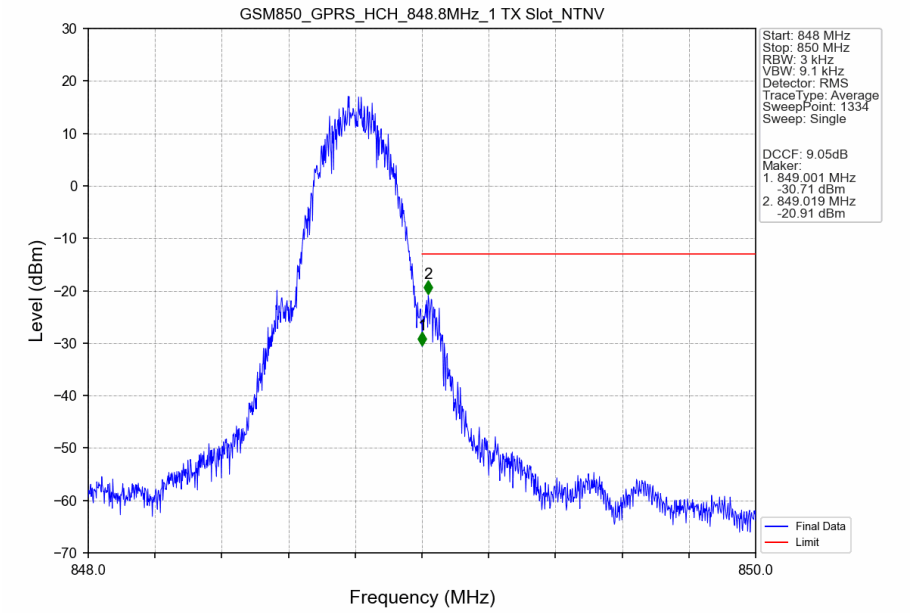
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



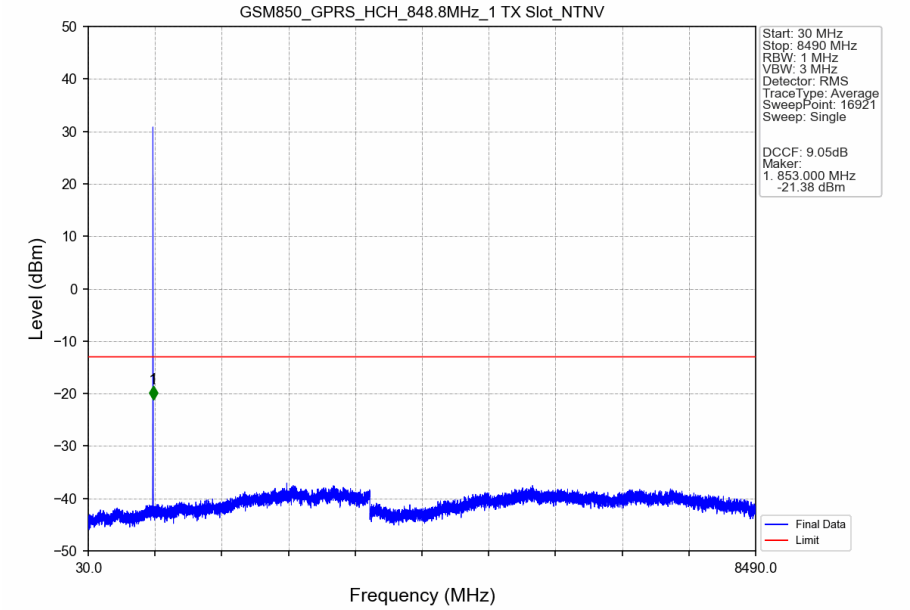
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



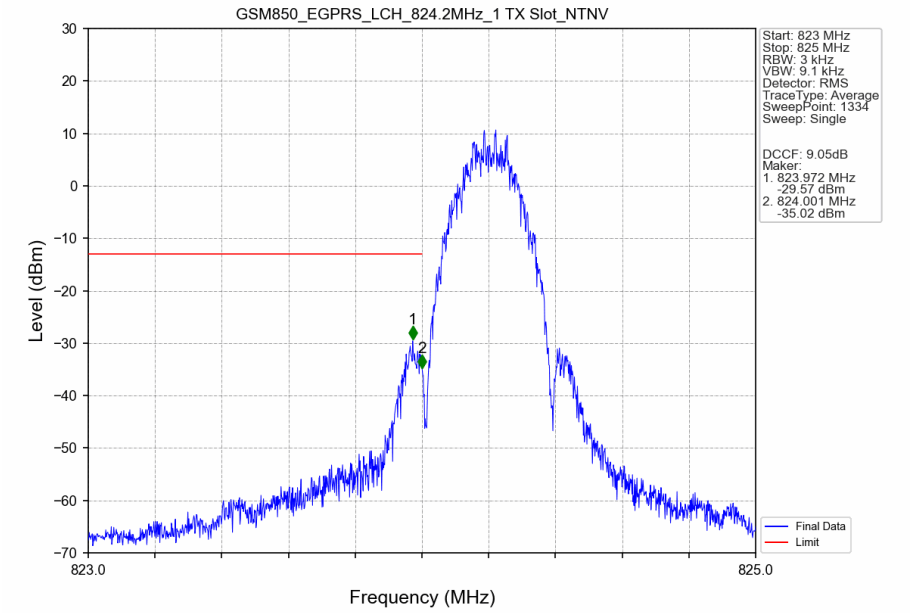
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



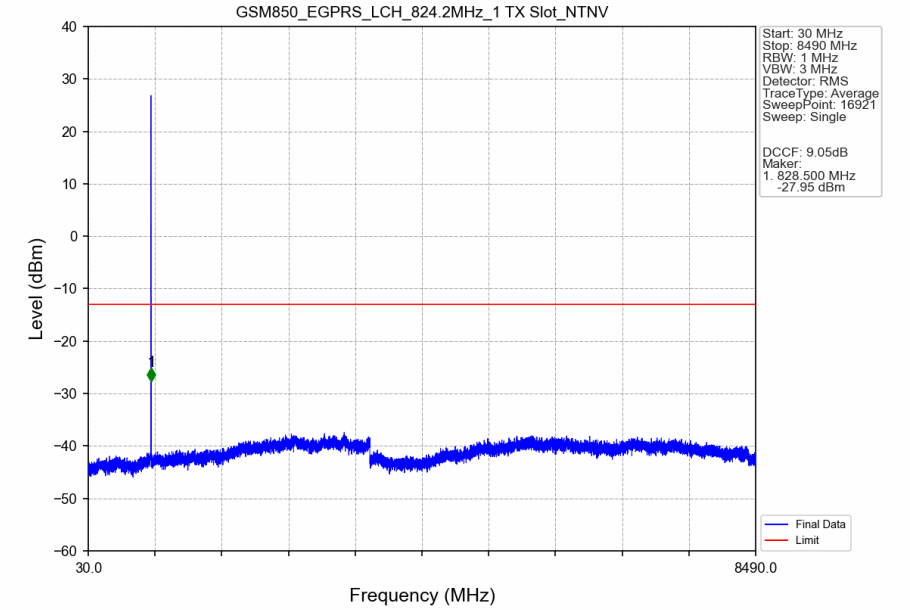
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



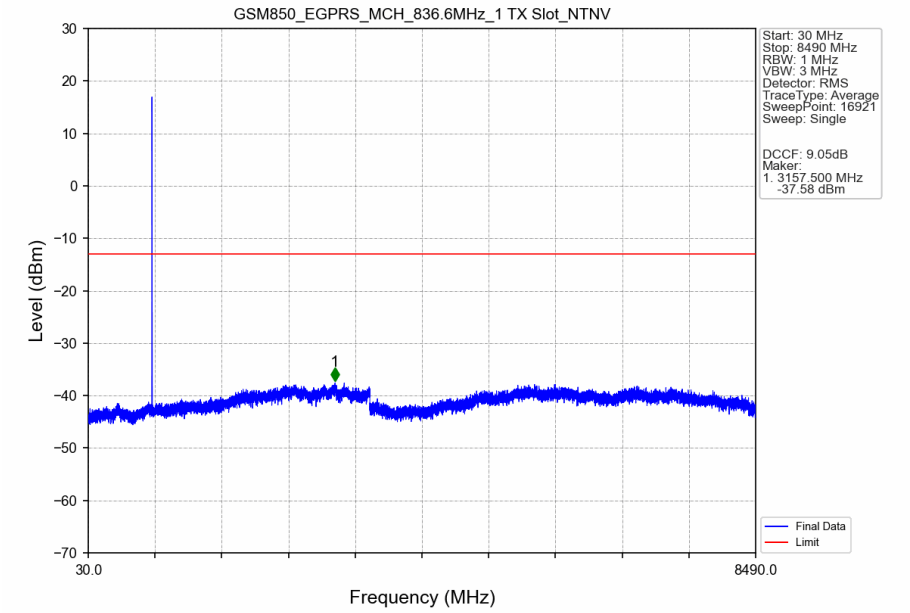
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



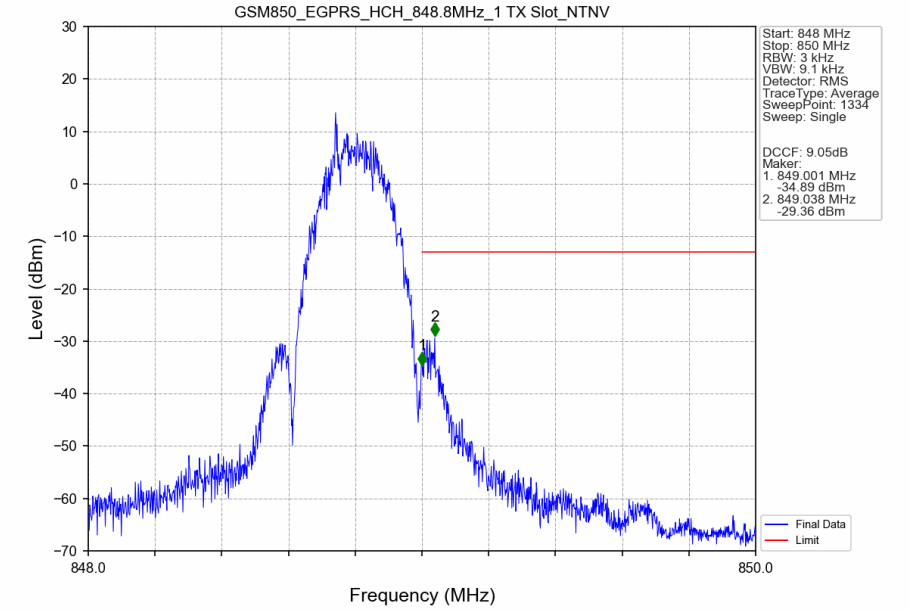
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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