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	32.98	-1.24	29.59	<=38.45	Pass
		2 TX Slots	824.2	30.82	-1.24	27.43	<=38.45	Pass
		3 TX Slots	824.2	28.92	-1.24	25.53	<=38.45	Pass
		4 TX Slots	824.2	26.81	-1.24	23.42	<=38.45	Pass
		1 TX Slot	836.6	32.96	-1.24	29.57	<=38.45	Pass
		2 TX Slots	836.6	30.70	-1.24	27.31	<=38.45	Pass
		3 TX Slots	836.6	28.82	-1.24	25.43	<=38.45	Pass
		4 TX Slots	836.6	26.67	-1.24	23.28	<=38.45	Pass
		1 TX Slot	848.8	32.74	-1.24	29.35	<=38.45	Pass
		2 TX Slots	848.8	30.43	-1.24	27.04	<=38.45	Pass
		3 TX Slots	848.8	28.54	-1.24	25.15	<=38.45	Pass
		4 TX Slots	848.8	26.35	-1.24	22.96	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	25.61	-1.24	22.22	<=38.45	Pass
		2 TX Slots	824.2	24.10	-1.24	20.71	<=38.45	Pass
		3 TX Slots	824.2	21.40	-1.24	18.01	<=38.45	Pass
		4 TX Slots	824.2	19.78	-1.24	16.39	<=38.45	Pass
		1 TX Slot	836.6	25.52	-1.24	22.13	<=38.45	Pass
		2 TX Slots	836.6	24.40	-1.24	21.01	<=38.45	Pass
		3 TX Slots	836.6	22.86	-1.24	19.47	<=38.45	Pass
		4 TX Slots	836.6	19.78	-1.24	16.39	<=38.45	Pass
		1 TX Slot	848.8	25.42	-1.24	22.03	<=38.45	Pass
		2 TX Slots	848.8	24.27	-1.24	20.88	<=38.45	Pass
		3 TX Slots	848.8	21.15	-1.24	17.76	<=38.45	Pass
		4 TX Slots	848.8	19.80	-1.24	16.41	<=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	13.625	0.0165	-2.5 to 2.5	Pass
			NV	11.655	0.0141	-2.5 to 2.5	Pass
			HV	12.721	0.0154	-2.5 to 2.5	Pass
		-30	NV	5.779	0.0070	-2.5 to 2.5	Pass
		-20	NV	11.009	0.0134	-2.5 to 2.5	Pass
		-10	NV	5.973	0.0072	-2.5 to 2.5	Pass
		0	NV	9.492	0.0115	-2.5 to 2.5	Pass
		10	NV	6.360	0.0077	-2.5 to 2.5	Pass

		30	NV	7.684	0.0093	-2.5 to 2.5	Pass
		40	NV	7.813	0.0095	-2.5 to 2.5	Pass
		50	NV	6.974	0.0085	-2.5 to 2.5	Pass
	836.6	20	LV	5.650	0.0068	-2.5 to 2.5	Pass
			NV	4.972	0.0059	-2.5 to 2.5	Pass
			HV	5.650	0.0068	-2.5 to 2.5	Pass
		-30	NV	-1.001	-0.0012	-2.5 to 2.5	Pass
		-20	NV	3.616	0.0043	-2.5 to 2.5	Pass
		-10	NV	6.780	0.0081	-2.5 to 2.5	Pass
		0	NV	1.840	0.0022	-2.5 to 2.5	Pass
		10	NV	4.423	0.0053	-2.5 to 2.5	Pass
		30	NV	7.458	0.0089	-2.5 to 2.5	Pass
		40	NV	3.713	0.0044	-2.5 to 2.5	Pass
		50	NV	3.164	0.0038	-2.5 to 2.5	Pass
	848.8	20	LV	5.715	0.0067	-2.5 to 2.5	Pass
			NV	4.488	0.0053	-2.5 to 2.5	Pass
			HV	6.005	0.0071	-2.5 to 2.5	Pass
		-30	NV	6.683	0.0079	-2.5 to 2.5	Pass
		-20	NV	4.391	0.0052	-2.5 to 2.5	Pass
		-10	NV	0.807	0.0010	-2.5 to 2.5	Pass
		0	NV	7.523	0.0089	-2.5 to 2.5	Pass
		10	NV	2.421	0.0029	-2.5 to 2.5	Pass
		30	NV	5.004	0.0059	-2.5 to 2.5	Pass
		40	NV	7.910	0.0093	-2.5 to 2.5	Pass
		50	NV	3.584	0.0042	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	7.619	0.0092	-2.5 to 2.5	Pass
			NV	4.843	0.0059	-2.5 to 2.5	Pass
			HV	4.940	0.0060	-2.5 to 2.5	Pass
		-30	NV	5.811	0.0071	-2.5 to 2.5	Pass
		-20	NV	6.812	0.0083	-2.5 to 2.5	Pass
		-10	NV	5.327	0.0065	-2.5 to 2.5	Pass
		0	NV	9.653	0.0117	-2.5 to 2.5	Pass
		10	NV	6.167	0.0075	-2.5 to 2.5	Pass
		30	NV	8.007	0.0097	-2.5 to 2.5	Pass
		40	NV	6.877	0.0083	-2.5 to 2.5	Pass
		50	NV	2.486	0.0030	-2.5 to 2.5	Pass
	836.6	20	LV	5.069	0.0061	-2.5 to 2.5	Pass
			NV	4.197	0.0050	-2.5 to 2.5	Pass
			HV	9.686	0.0116	-2.5 to 2.5	Pass
		-30	NV	7.684	0.0092	-2.5 to 2.5	Pass
		-20	NV	11.655	0.0139	-2.5 to 2.5	Pass
		-10	NV	7.329	0.0088	-2.5 to 2.5	Pass
		0	NV	8.071	0.0096	-2.5 to 2.5	Pass
		10	NV	5.650	0.0068	-2.5 to 2.5	Pass
		30	NV	2.841	0.0034	-2.5 to 2.5	Pass
		40	NV	0.065	0.0001	-2.5 to 2.5	Pass
		50	NV	6.167	0.0074	-2.5 to 2.5	Pass
	848.8	20	LV	6.812	0.0080	-2.5 to 2.5	Pass
			NV	3.261	0.0038	-2.5 to 2.5	Pass
			HV	0.969	0.0011	-2.5 to 2.5	Pass
		-30	NV	7.813	0.0092	-2.5 to 2.5	Pass
		-20	NV	3.003	0.0035	-2.5 to 2.5	Pass
		-10	NV	1.905	0.0022	-2.5 to 2.5	Pass
		0	NV	5.327	0.0063	-2.5 to 2.5	Pass
		10	NV	4.746	0.0056	-2.5 to 2.5	Pass
		30	NV	5.295	0.0062	-2.5 to 2.5	Pass

		40	NV	6.102	0.0072	-2.5 to 2.5	Pass
		50	NV	3.842	0.0045	-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	0.248	/	Pass
			848.8	0.249	/	Pass
	EGPRS	1 TX Slot	824.2	0.251	/	Pass
			836.6	0.242	/	Pass
			848.8	0.237	/	Pass

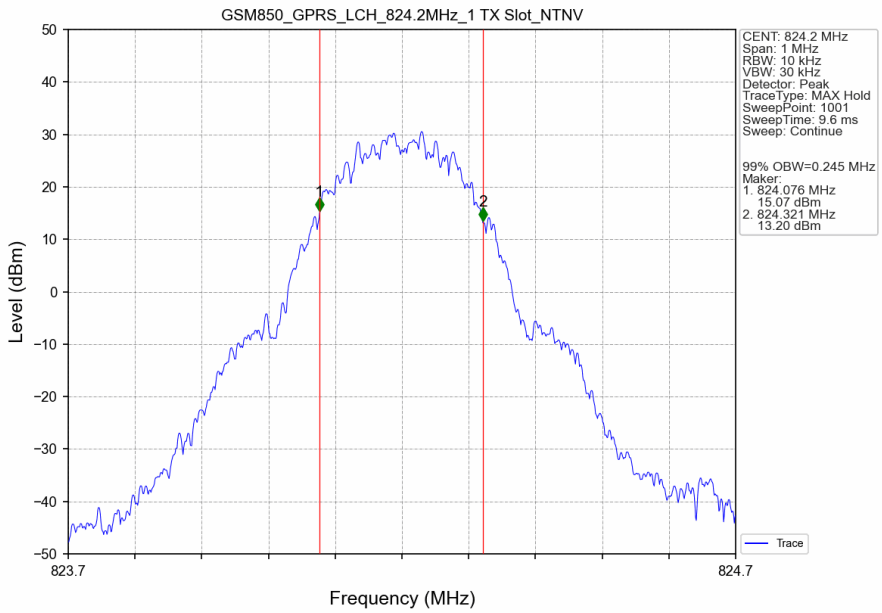
3.1.2 GSM850_XDB

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.317	/	Pass
			836.6	0.319	/	Pass
			848.8	0.309	/	Pass
	EGPRS	1 TX Slot	824.2	0.297	/	Pass
			836.6	0.299	/	Pass
			848.8	0.297	/	Pass

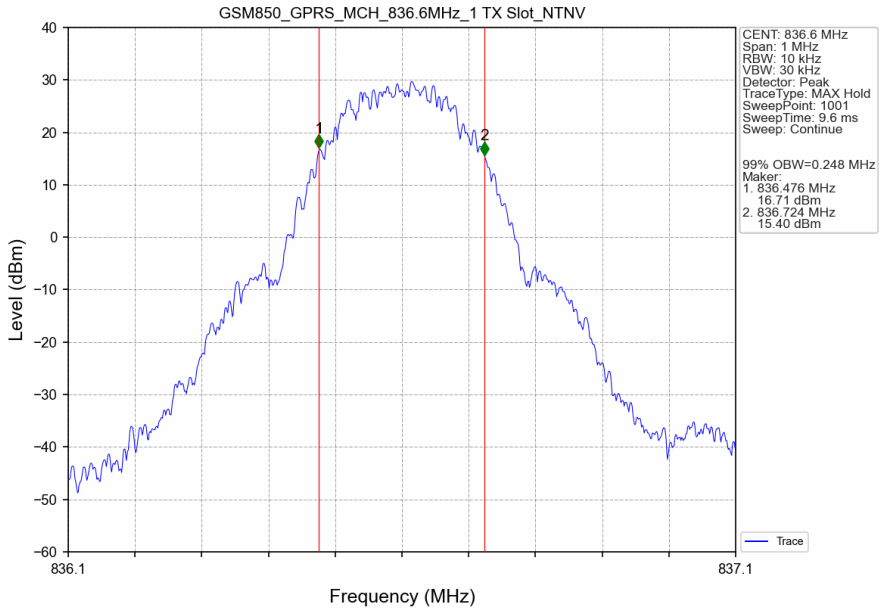
3.2 Test Graph

3.2.1 GSM850_OBW

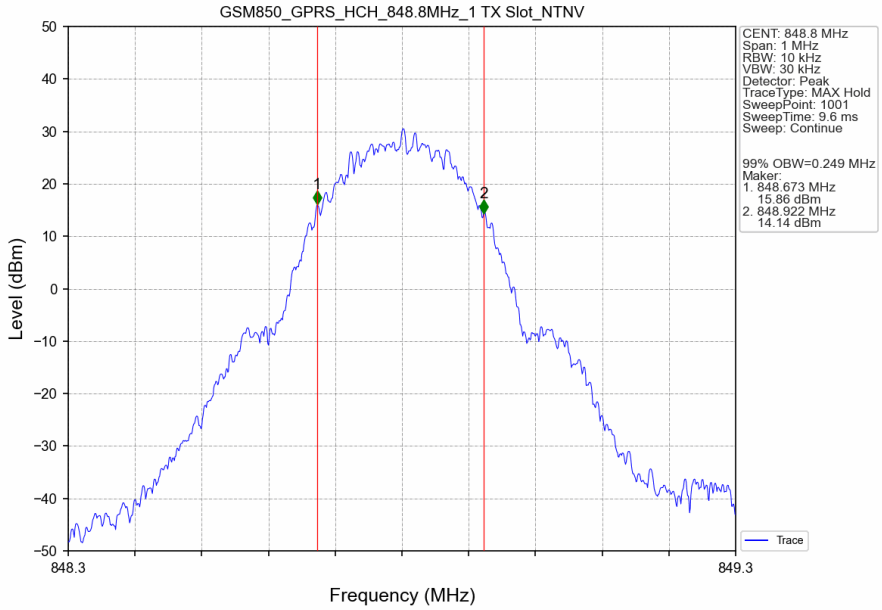
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



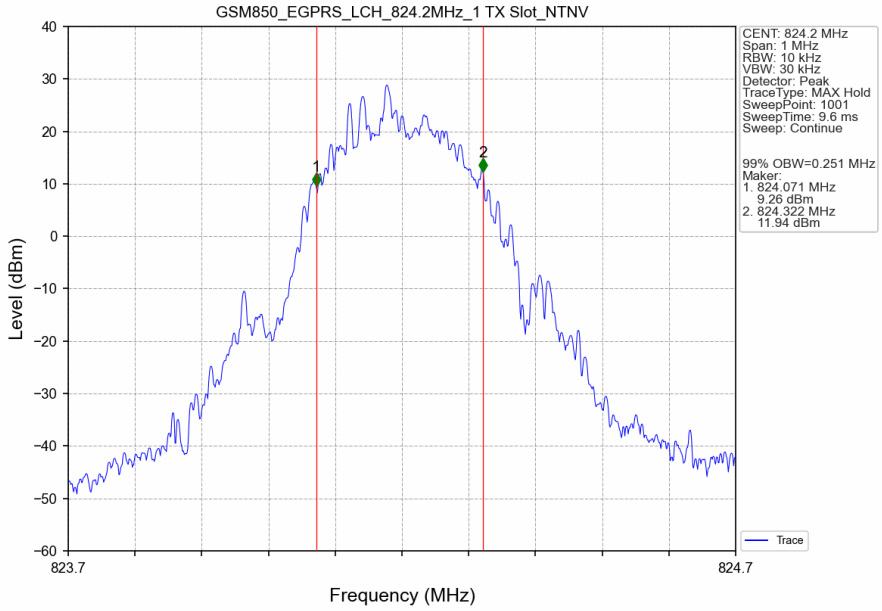
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



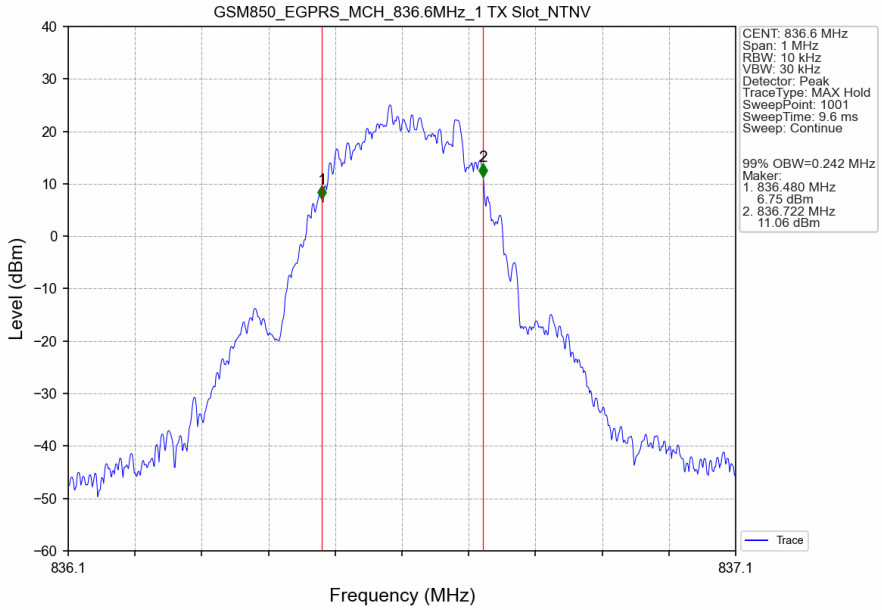
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



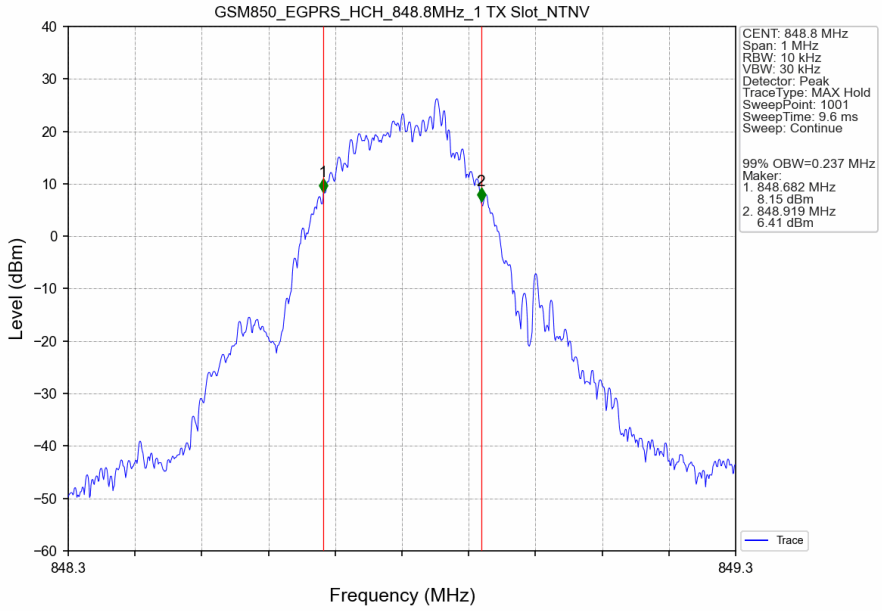
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV

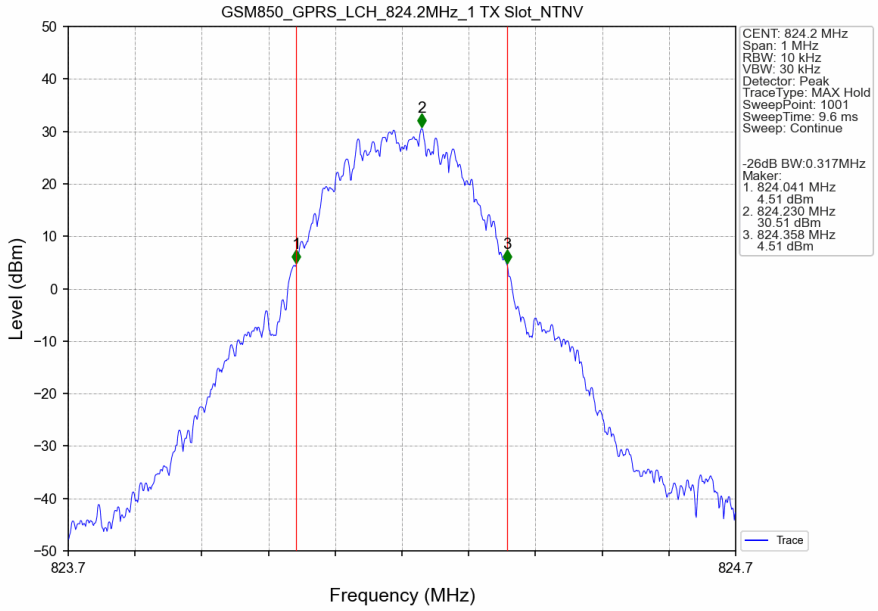


GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

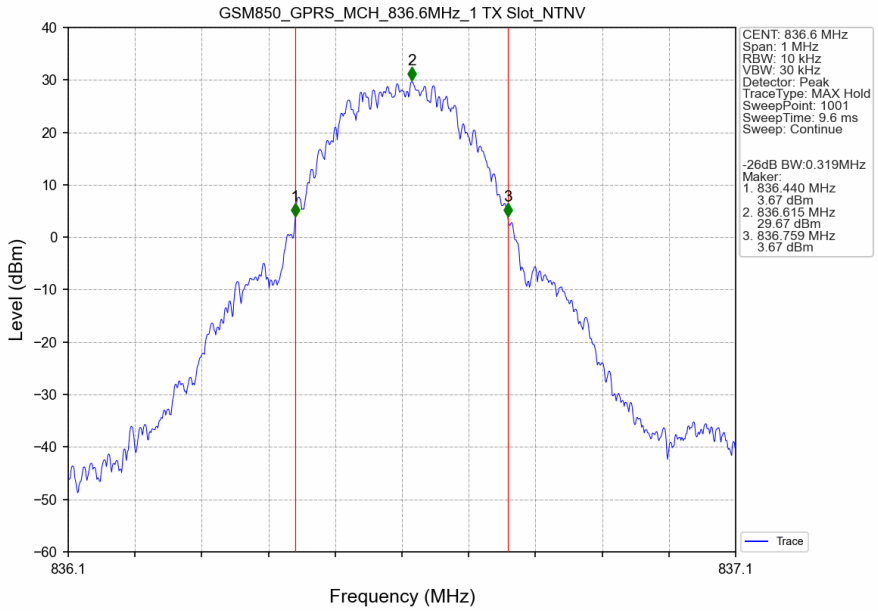


3.2.2 GSM850_XDB

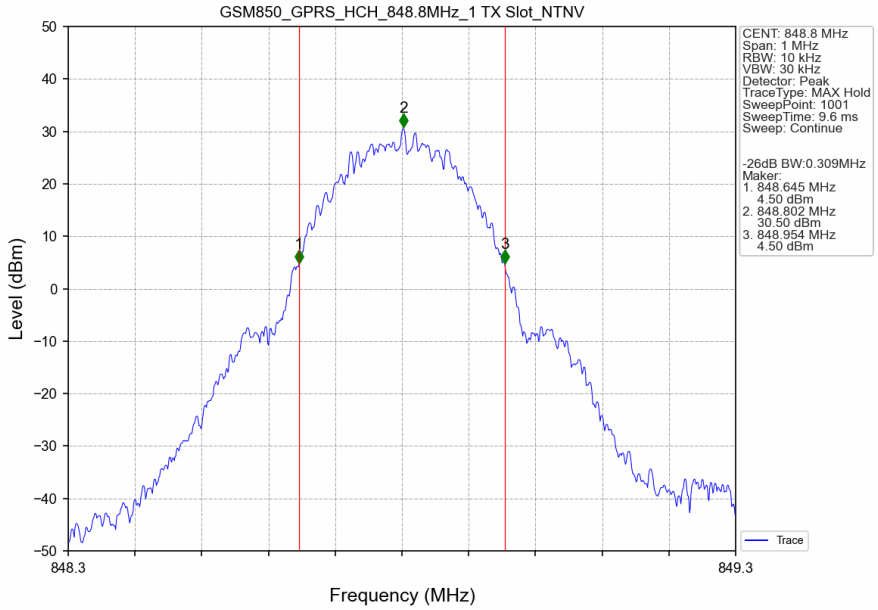
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



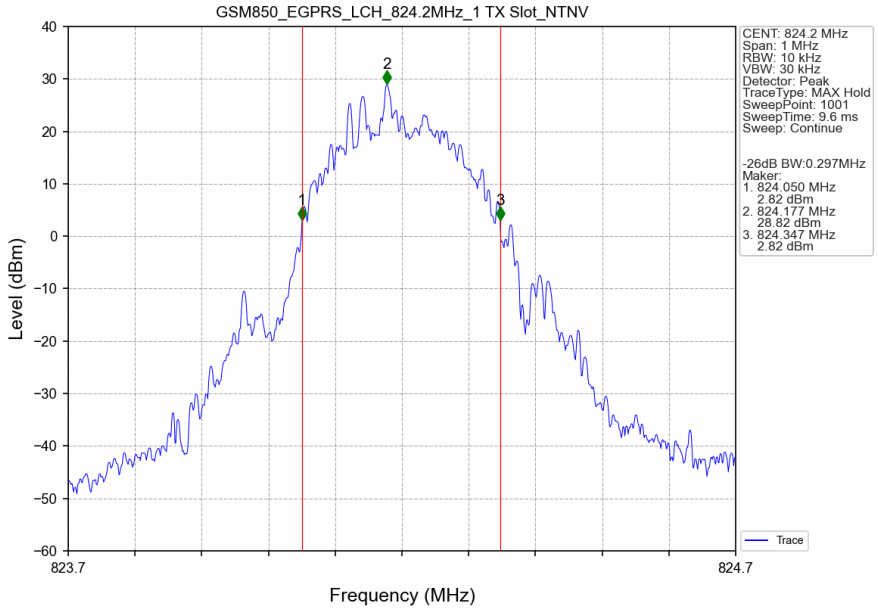
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



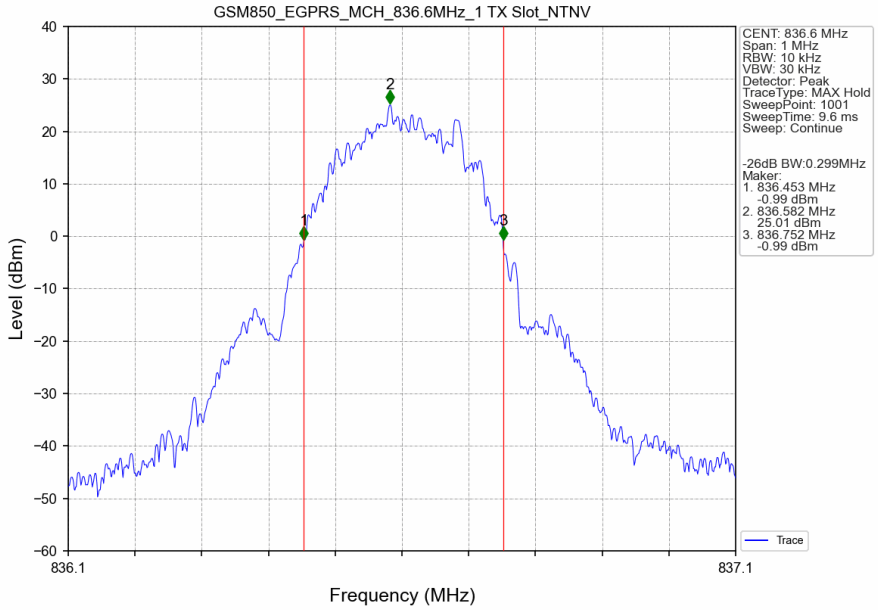
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



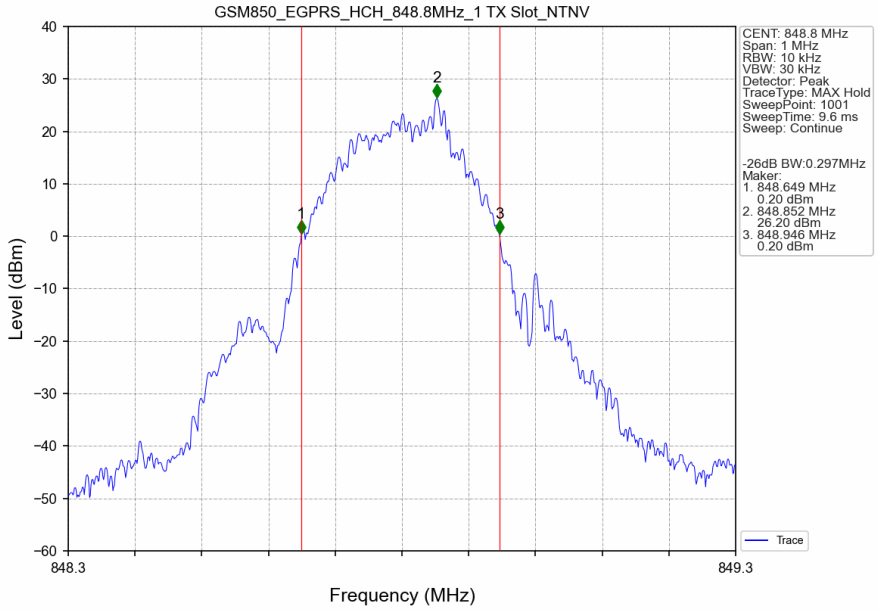
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

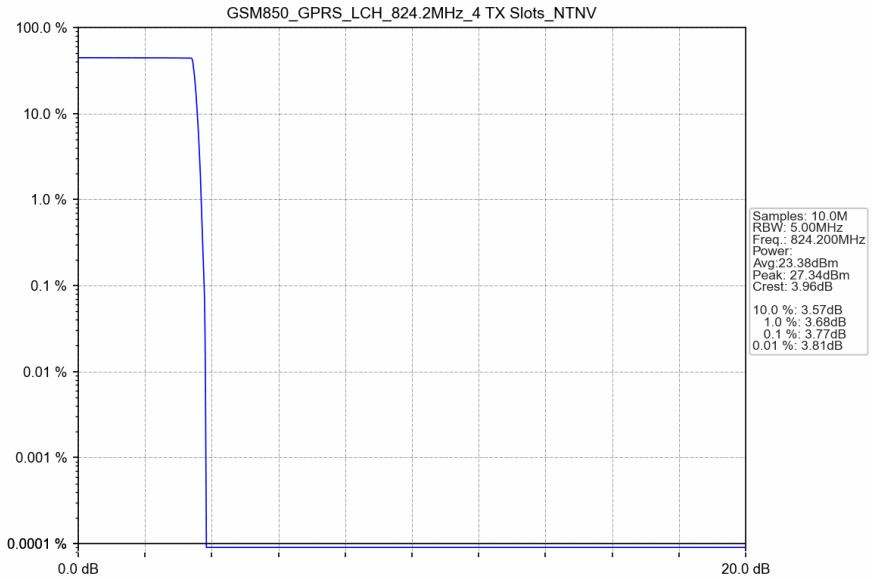
4.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.77	<=13	Pass
			836.6	3.73	<=13	Pass
			848.8	3.92	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.86	<=13	Pass
			836.6	10.72	<=13	Pass
			848.8	10.53	<=13	Pass

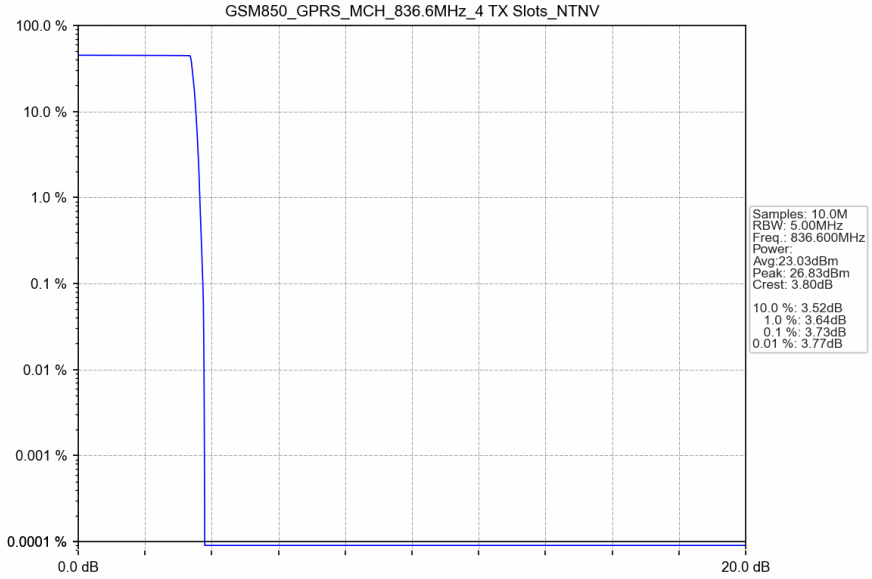
4.2 Test Graph

4.2.1 GSM850

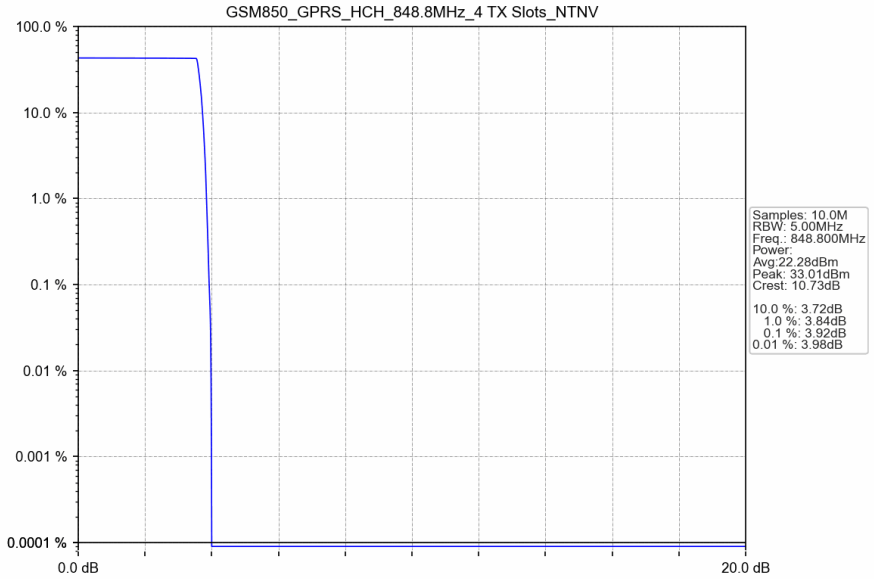
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



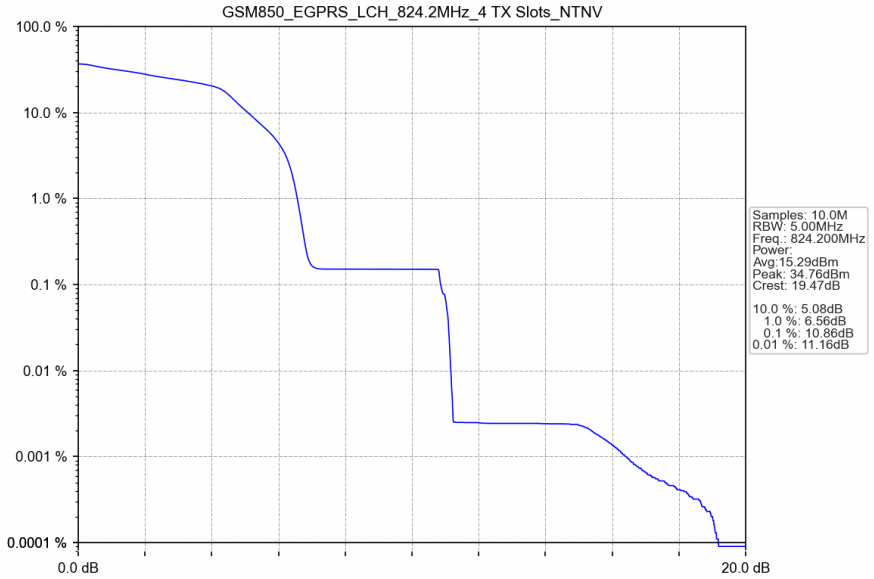
GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



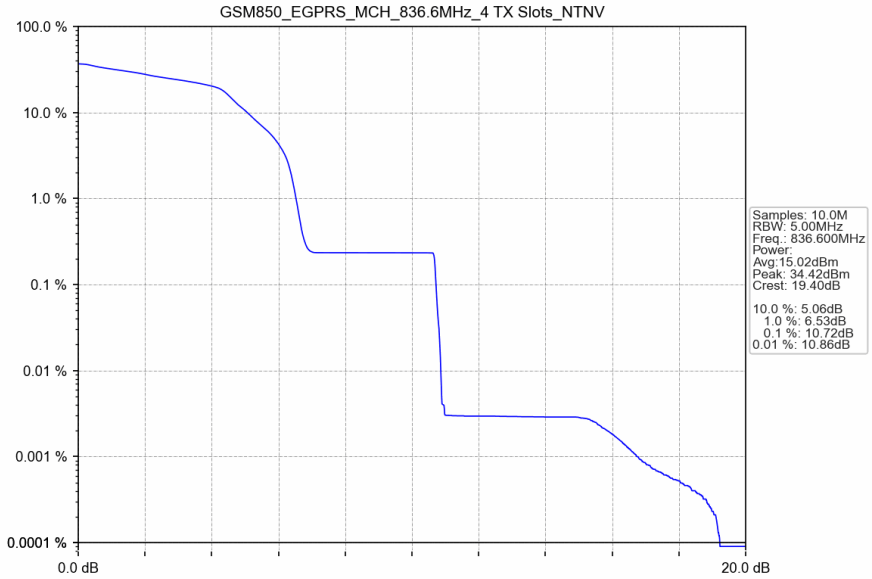
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



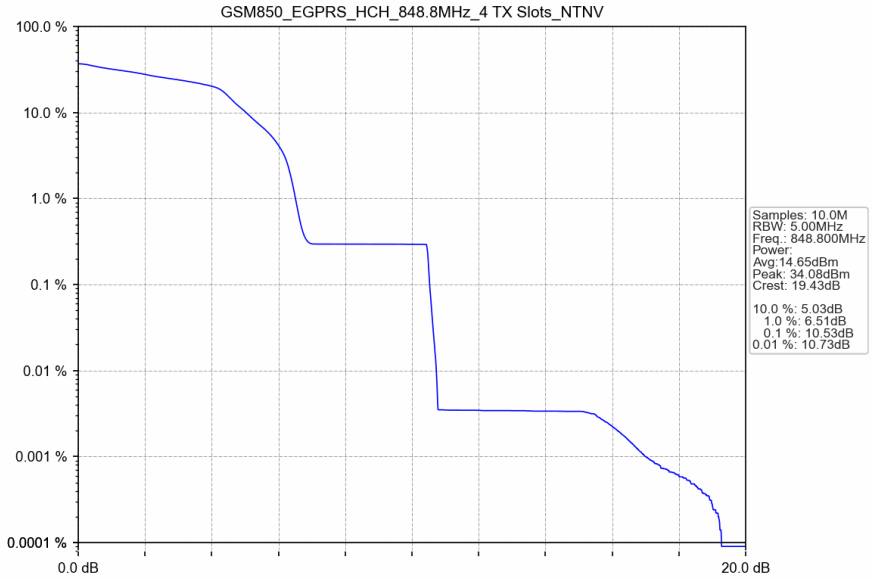
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



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

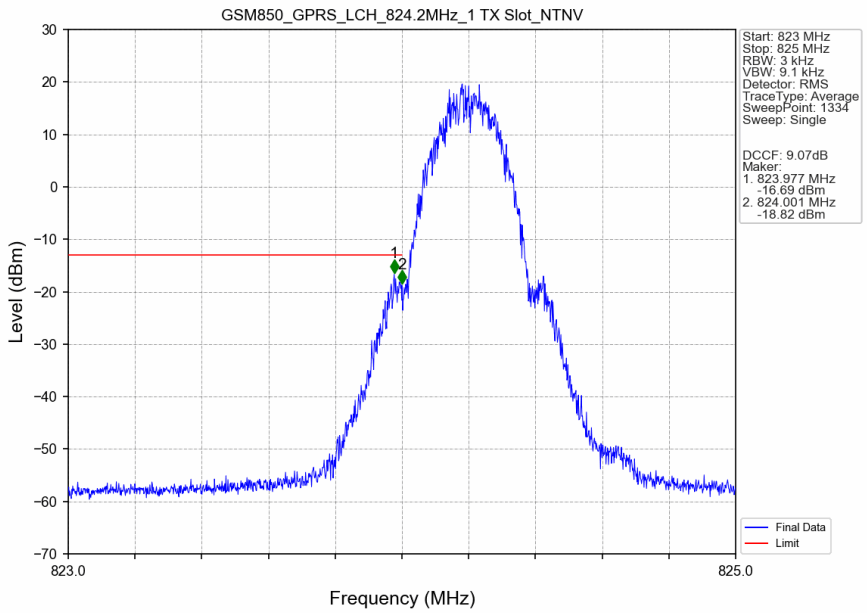
5.1.1 GSM850

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

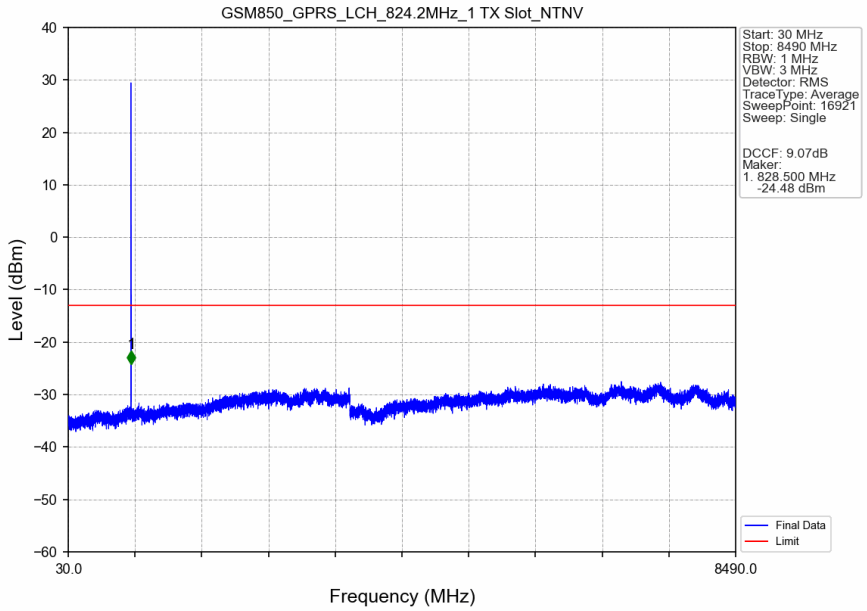
5.2 Test Graph

5.2.1 GSM850

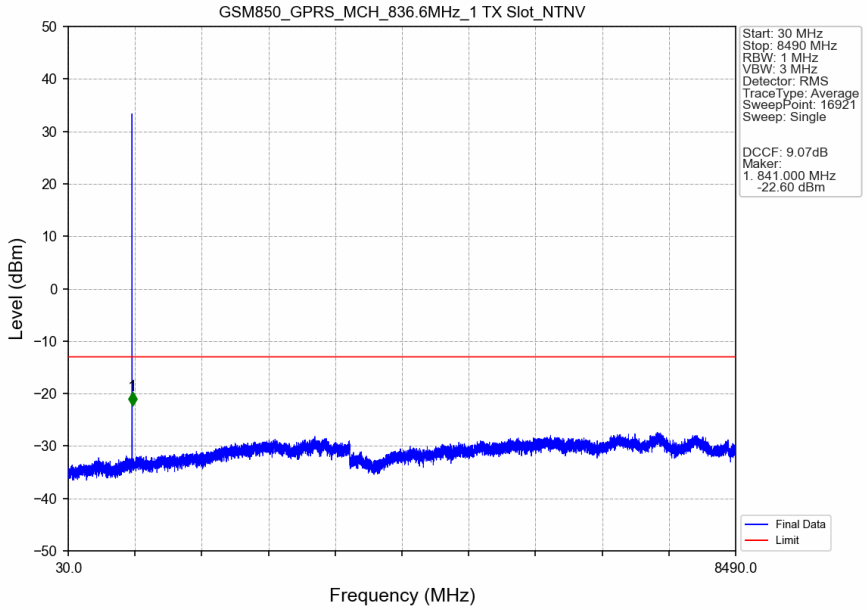
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



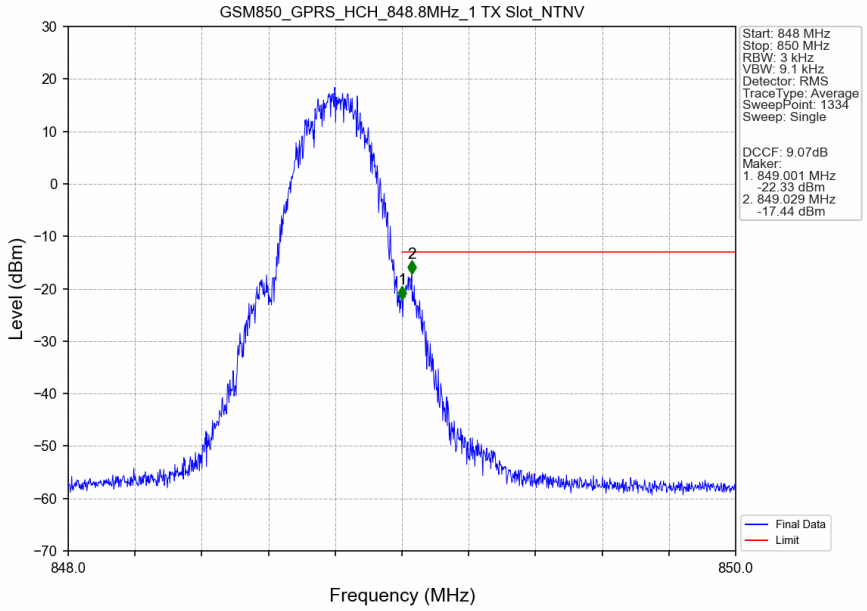
GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



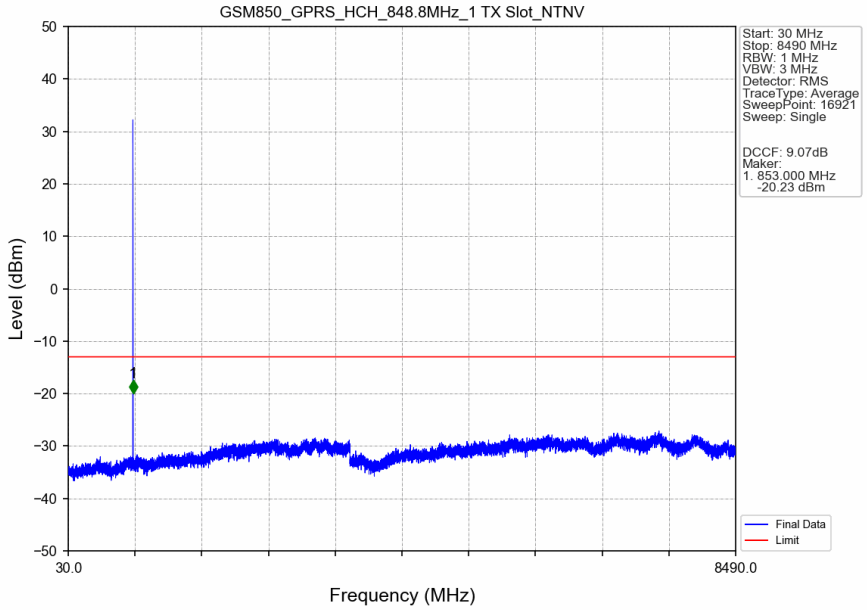
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



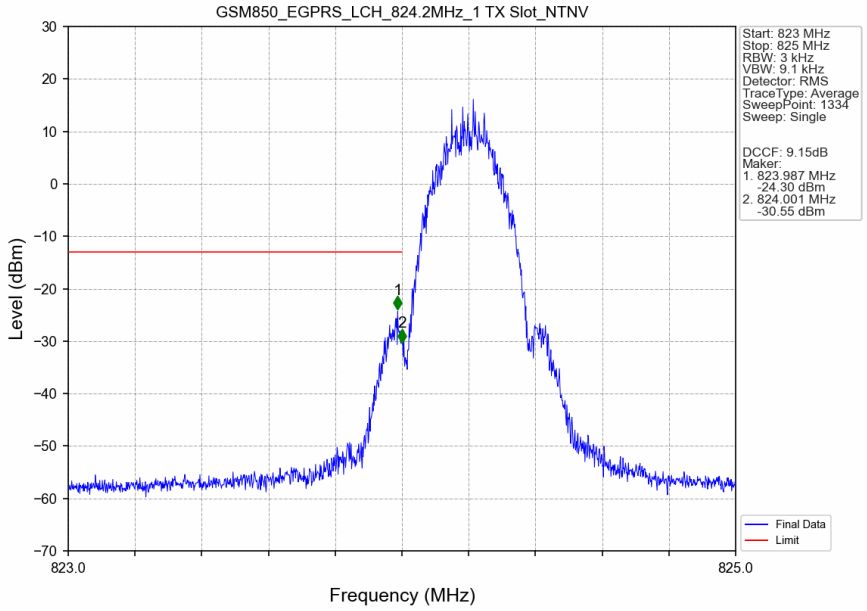
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



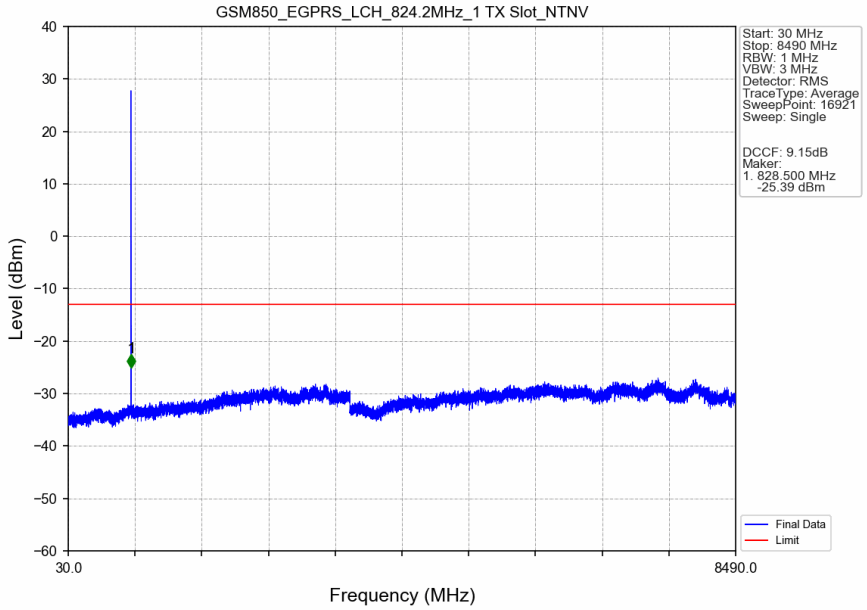
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



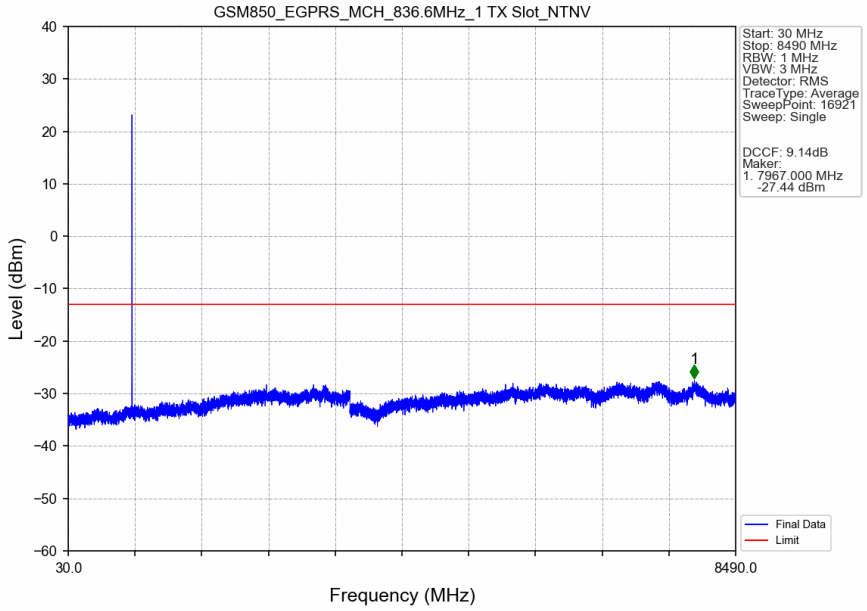
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



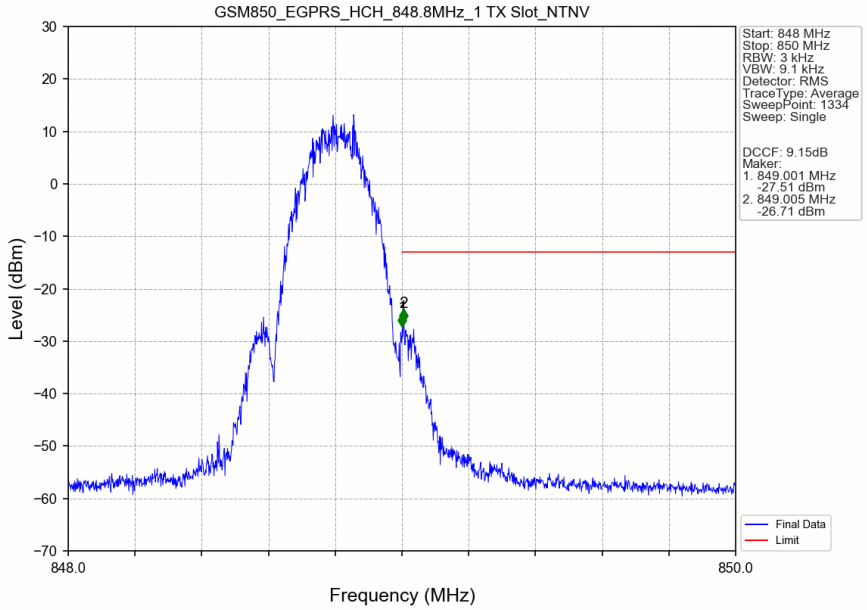
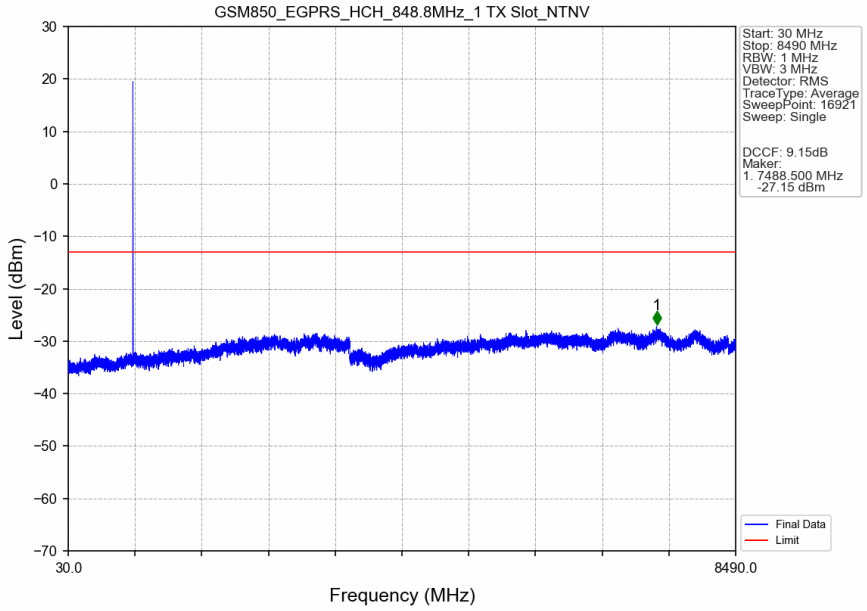
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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