

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	34.06	-6.33	25.58	<=38.45	Pass
		2 TX Slots	824.2	33.01	-6.33	24.53	<=38.45	Pass
		3 TX Slots	824.2	30.81	-6.33	22.33	<=38.45	Pass
		4 TX Slots	824.2	29.56	-6.33	21.08	<=38.45	Pass
		1 TX Slot	836.6	34.49	-6.33	26.01	<=38.45	Pass
		2 TX Slots	836.6	33.38	-6.33	24.90	<=38.45	Pass
		3 TX Slots	836.6	31.20	-6.33	22.72	<=38.45	Pass
		4 TX Slots	836.6	29.97	-6.33	21.49	<=38.45	Pass
		1 TX Slot	848.8	34.32	-6.33	25.84	<=38.45	Pass
		2 TX Slots	848.8	33.19	-6.33	24.71	<=38.45	Pass
		3 TX Slots	848.8	31.00	-6.33	22.52	<=38.45	Pass
		4 TX Slots	848.8	29.76	-6.33	21.28	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	27.72	-6.33	19.24	<=38.45	Pass
		2 TX Slots	824.2	26.61	-6.33	18.13	<=38.45	Pass
		3 TX Slots	824.2	24.26	-6.33	15.78	<=38.45	Pass
		4 TX Slots	824.2	22.62	-6.33	14.14	<=38.45	Pass
		1 TX Slot	836.6	28.23	-6.33	19.75	<=38.45	Pass
		2 TX Slots	836.6	27.03	-6.33	18.55	<=38.45	Pass
		3 TX Slots	836.6	24.65	-6.33	16.17	<=38.45	Pass
		4 TX Slots	836.6	23.10	-6.33	14.62	<=38.45	Pass
		1 TX Slot	848.8	28.37	-6.33	19.89	<=38.45	Pass
		2 TX Slots	848.8	27.18	-6.33	18.70	<=38.45	Pass
		3 TX Slots	848.8	24.62	-6.33	16.14	<=38.45	Pass
		4 TX Slots	848.8	23.30	-6.33	14.82	<=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	8.265	0.0100	-2.5 to 2.5	Pass
			NV	7.555	0.0092	-2.5 to 2.5	Pass
			HV	7.071	0.0086	-2.5 to 2.5	Pass
		-30	NV	6.102	0.0074	-2.5 to 2.5	Pass
		-20	NV	6.328	0.0077	-2.5 to 2.5	Pass
		-10	NV	5.489	0.0067	-2.5 to 2.5	Pass
		0	NV	8.104	0.0098	-2.5 to 2.5	Pass
		10	NV	5.198	0.0063	-2.5 to 2.5	Pass
		30	NV	2.195	0.0027	-2.5 to 2.5	Pass
		40	NV	5.037	0.0061	-2.5 to 2.5	Pass
		50	NV	5.521	0.0067	-2.5 to 2.5	Pass
	836.6	20	LV	5.682	0.0068	-2.5 to 2.5	Pass
			NV	8.071	0.0096	-2.5 to 2.5	Pass
			HV	7.781	0.0093	-2.5 to 2.5	Pass
		-30	NV	7.910	0.0095	-2.5 to 2.5	Pass
		-20	NV	8.685	0.0104	-2.5 to 2.5	Pass
		-10	NV	6.651	0.0080	-2.5 to 2.5	Pass
		0	NV	9.008	0.0108	-2.5 to 2.5	Pass
		10	NV	14.141	0.0169	-2.5 to 2.5	Pass
		30	NV	5.811	0.0069	-2.5 to 2.5	Pass
		40	NV	6.231	0.0074	-2.5 to 2.5	Pass
		50	NV	7.167	0.0086	-2.5 to 2.5	Pass
	848.8	20	LV	5.037	0.0059	-2.5 to 2.5	Pass
			NV	3.907	0.0046	-2.5 to 2.5	Pass
			HV	5.489	0.0065	-2.5 to 2.5	Pass
		-30	NV	6.070	0.0072	-2.5 to 2.5	Pass
		-20	NV	7.329	0.0086	-2.5 to 2.5	Pass
		-10	NV	7.135	0.0084	-2.5 to 2.5	Pass
		0	NV	4.197	0.0049	-2.5 to 2.5	Pass
		10	NV	6.457	0.0076	-2.5 to 2.5	Pass
		30	NV	4.649	0.0055	-2.5 to 2.5	Pass
		40	NV	5.844	0.0069	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	9.169	0.0111	-2.5 to 2.5	Pass
			NV	9.492	0.0115	-2.5 to 2.5	Pass
			HV	5.585	0.0068	-2.5 to 2.5	Pass
		-30	NV	8.523	0.0103	-2.5 to 2.5	Pass
		-20	NV	10.654	0.0129	-2.5 to 2.5	Pass
		-10	NV	5.230	0.0063	-2.5 to 2.5	Pass
		0	NV	8.265	0.0100	-2.5 to 2.5	Pass
		10	NV	10.105	0.0123	-2.5 to 2.5	Pass
		30	NV	6.780	0.0082	-2.5 to 2.5	Pass
		40	NV	6.360	0.0077	-2.5 to 2.5	Pass
		50	NV	6.909	0.0084	-2.5 to 2.5	Pass
	836.6	20	LV	7.200	0.0086	-2.5 to 2.5	Pass
			NV	4.488	0.0054	-2.5 to 2.5	Pass

			HV	4.972	0.0059	-2.5 to 2.5	Pass
		-30	NV	6.102	0.0073	-2.5 to 2.5	Pass
		-20	NV	6.263	0.0075	-2.5 to 2.5	Pass
		-10	NV	5.133	0.0061	-2.5 to 2.5	Pass
		0	NV	4.746	0.0057	-2.5 to 2.5	Pass
		10	NV	8.330	0.0100	-2.5 to 2.5	Pass
		30	NV	7.232	0.0086	-2.5 to 2.5	Pass
		40	NV	9.718	0.0116	-2.5 to 2.5	Pass
		50	NV	5.908	0.0071	-2.5 to 2.5	Pass
	848.8	20	LV	5.521	0.0065	-2.5 to 2.5	Pass
			NV	5.585	0.0066	-2.5 to 2.5	Pass
			HV	6.393	0.0075	-2.5 to 2.5	Pass
		-30	NV	5.069	0.0060	-2.5 to 2.5	Pass
		-20	NV	4.520	0.0053	-2.5 to 2.5	Pass
		-10	NV	4.455	0.0052	-2.5 to 2.5	Pass
		0	NV	6.005	0.0071	-2.5 to 2.5	Pass
		10	NV	3.842	0.0045	-2.5 to 2.5	Pass
		30	NV	8.653	0.0102	-2.5 to 2.5	Pass
		40	NV	7.975	0.0094	-2.5 to 2.5	Pass
		50	NV	10.590	0.0125	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

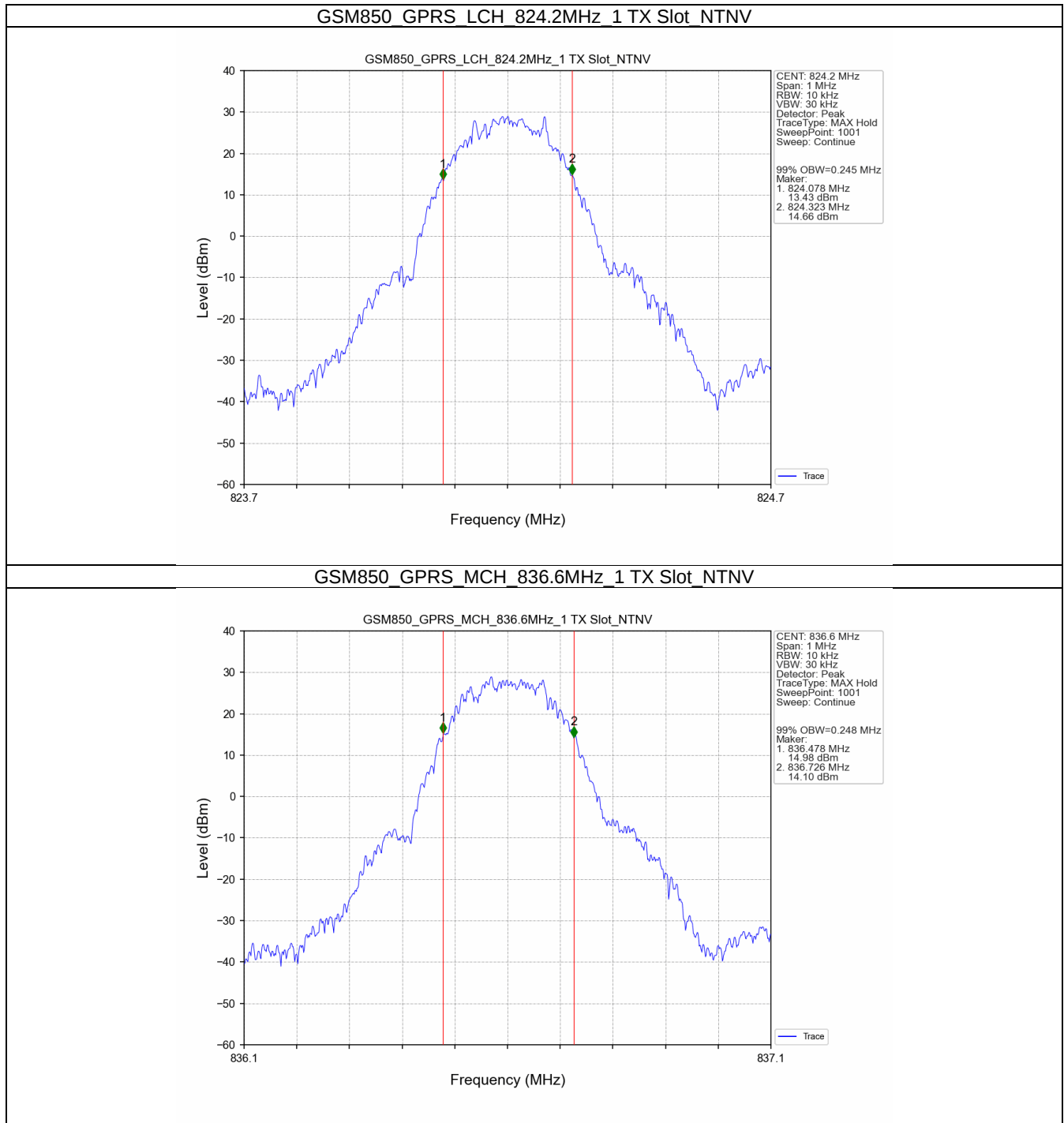
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.248	/	Pass
			848.8	0.239	/	Pass
	EGPRS	1 TX Slot	824.2	0.241	/	Pass
			836.6	0.236	/	Pass
			848.8	0.244	/	Pass

3.1.2 GSM850_XDB

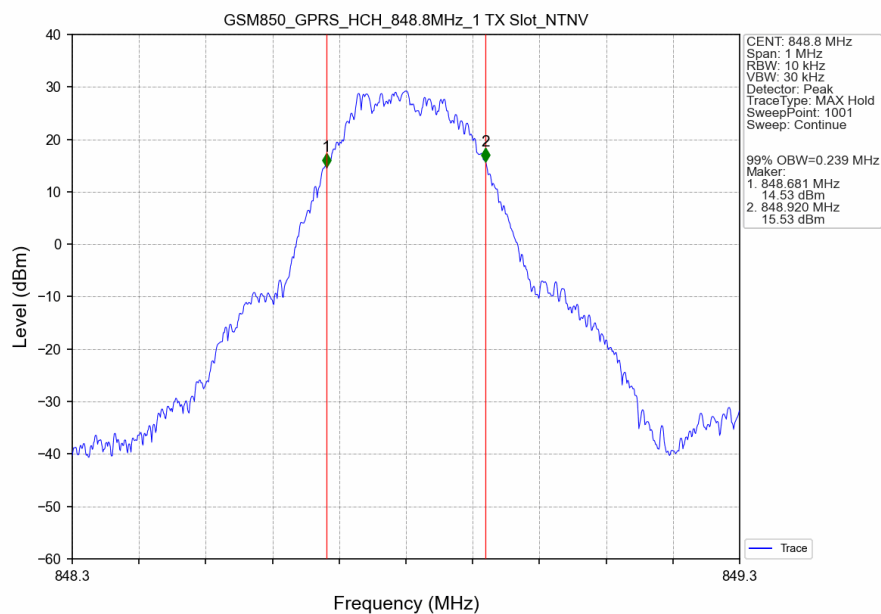
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.322	/	Pass
			836.6	0.327	/	Pass
			848.8	0.316	/	Pass
	EGPRS	1 TX Slot	824.2	0.291	/	Pass
			836.6	0.308	/	Pass
			848.8	0.308	/	Pass

3.2 Test Graph

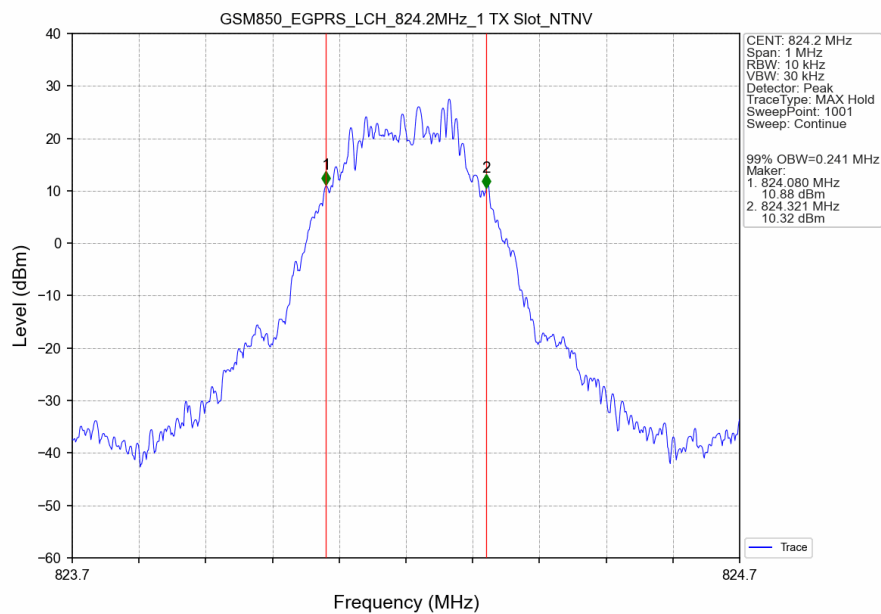
3.2.1 GSM850_OBW



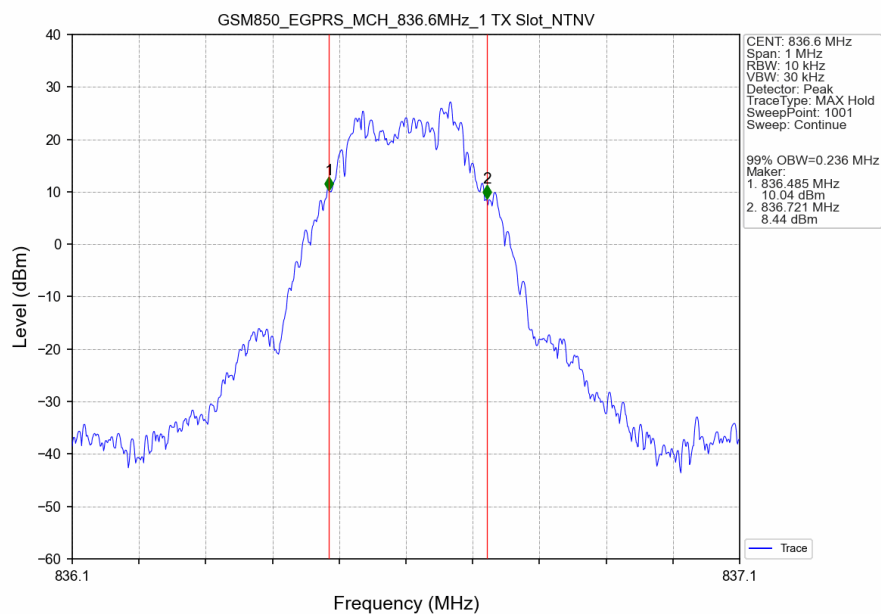
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



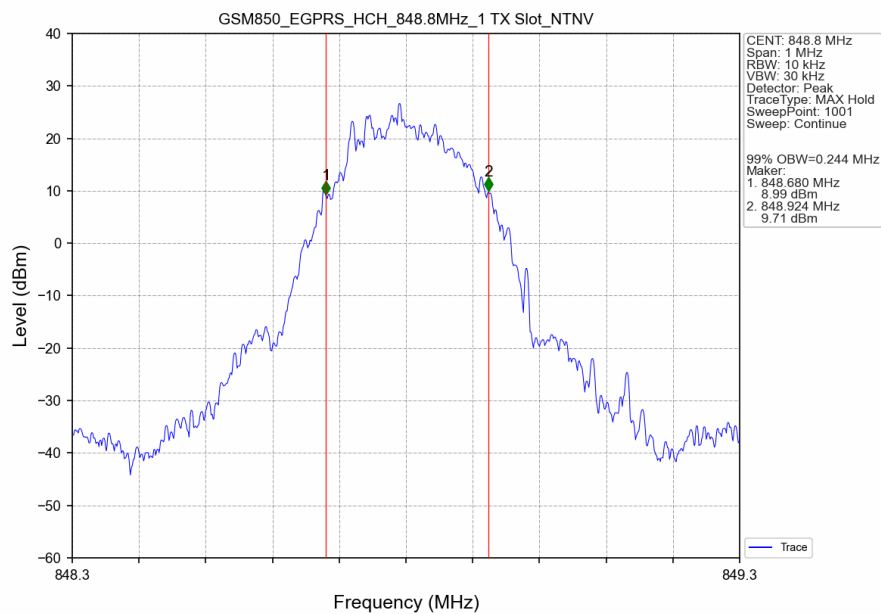
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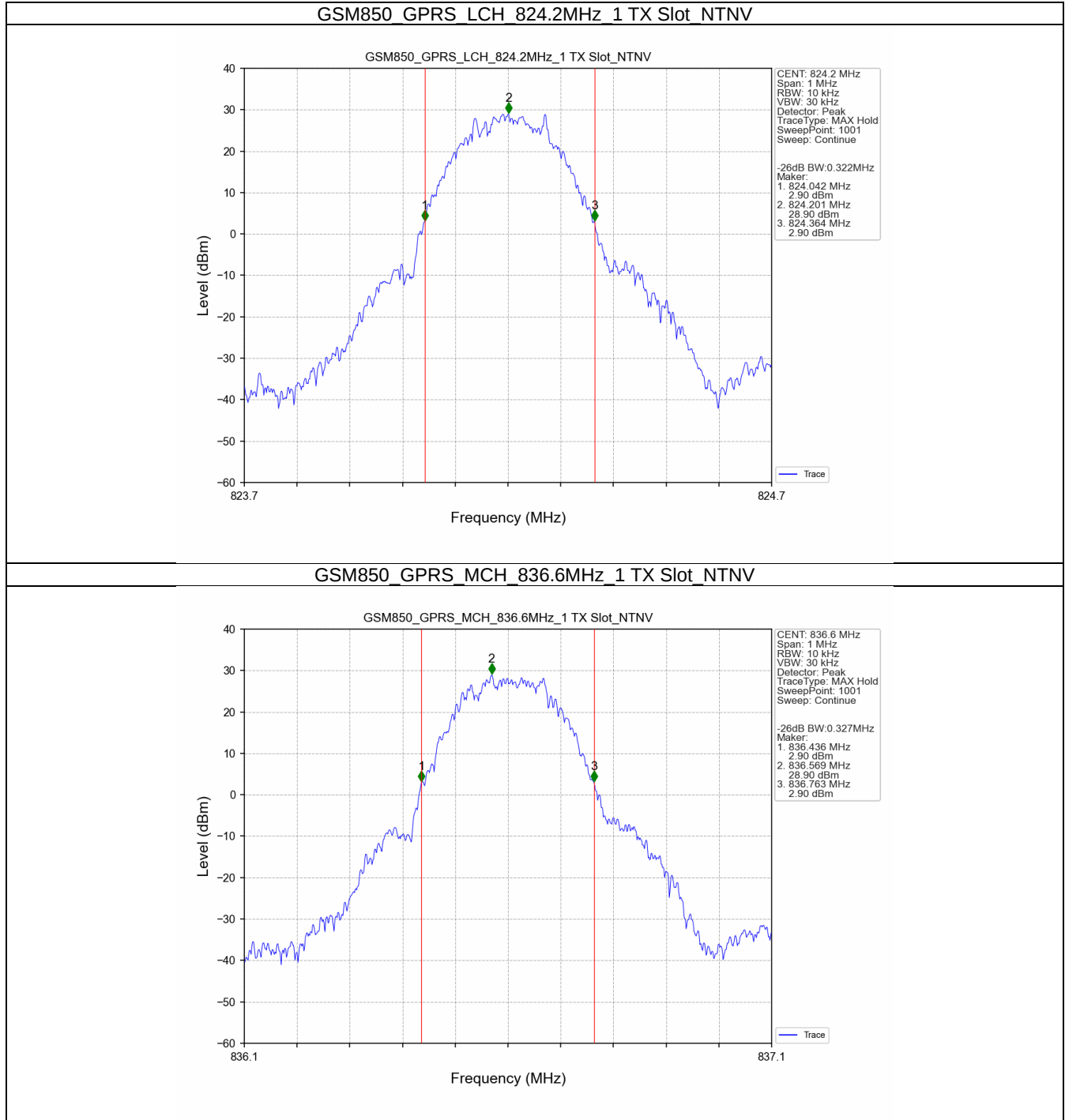
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTV



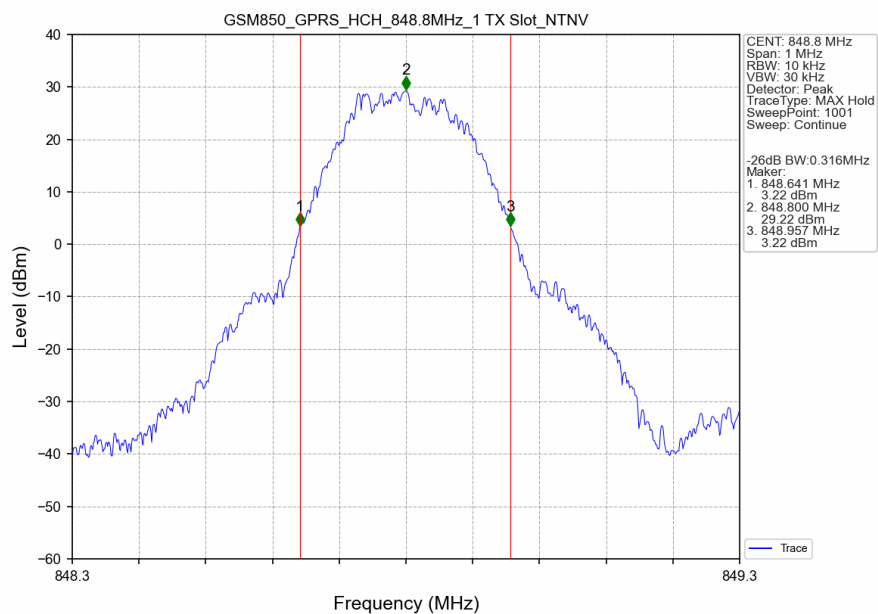
GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTV



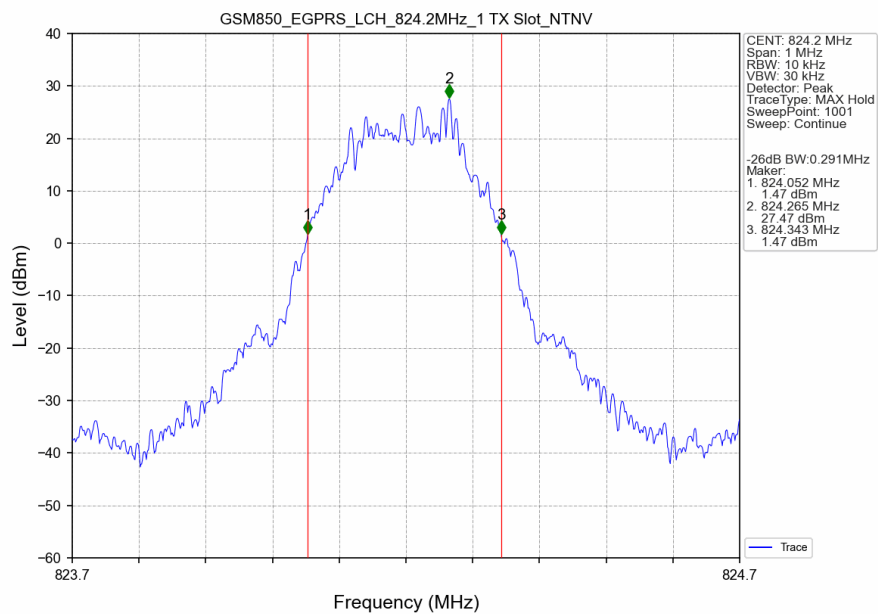
3.2.2 GSM850_XDB



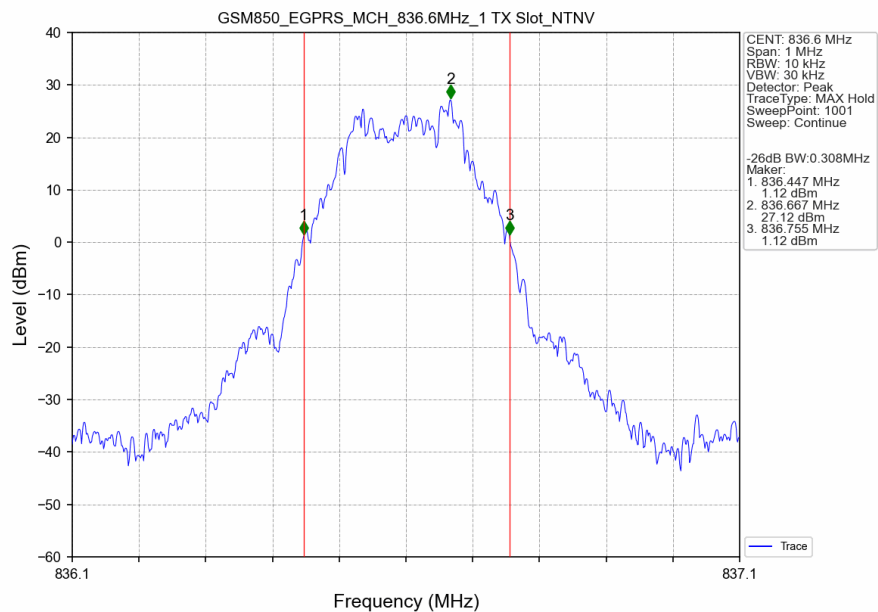
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



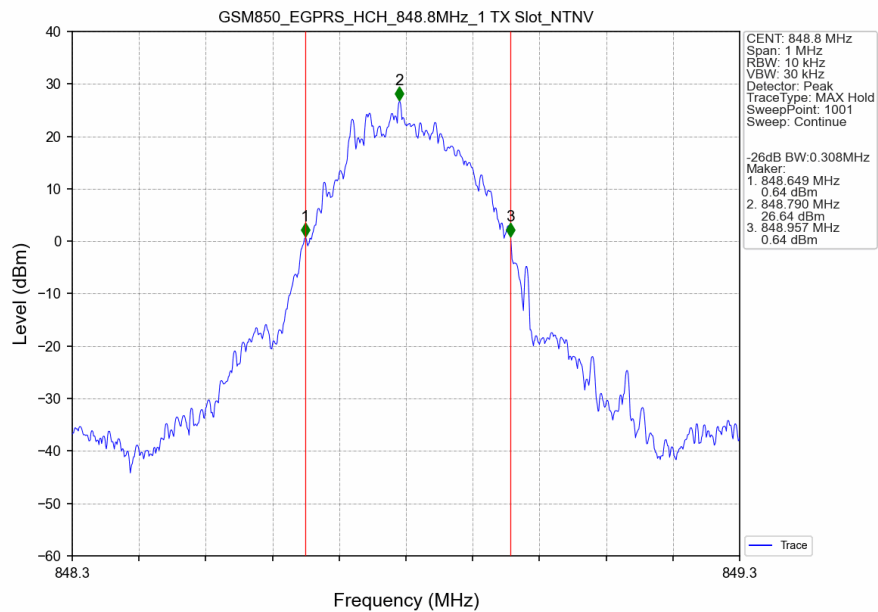
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTV





4. Peak-Average Ratio

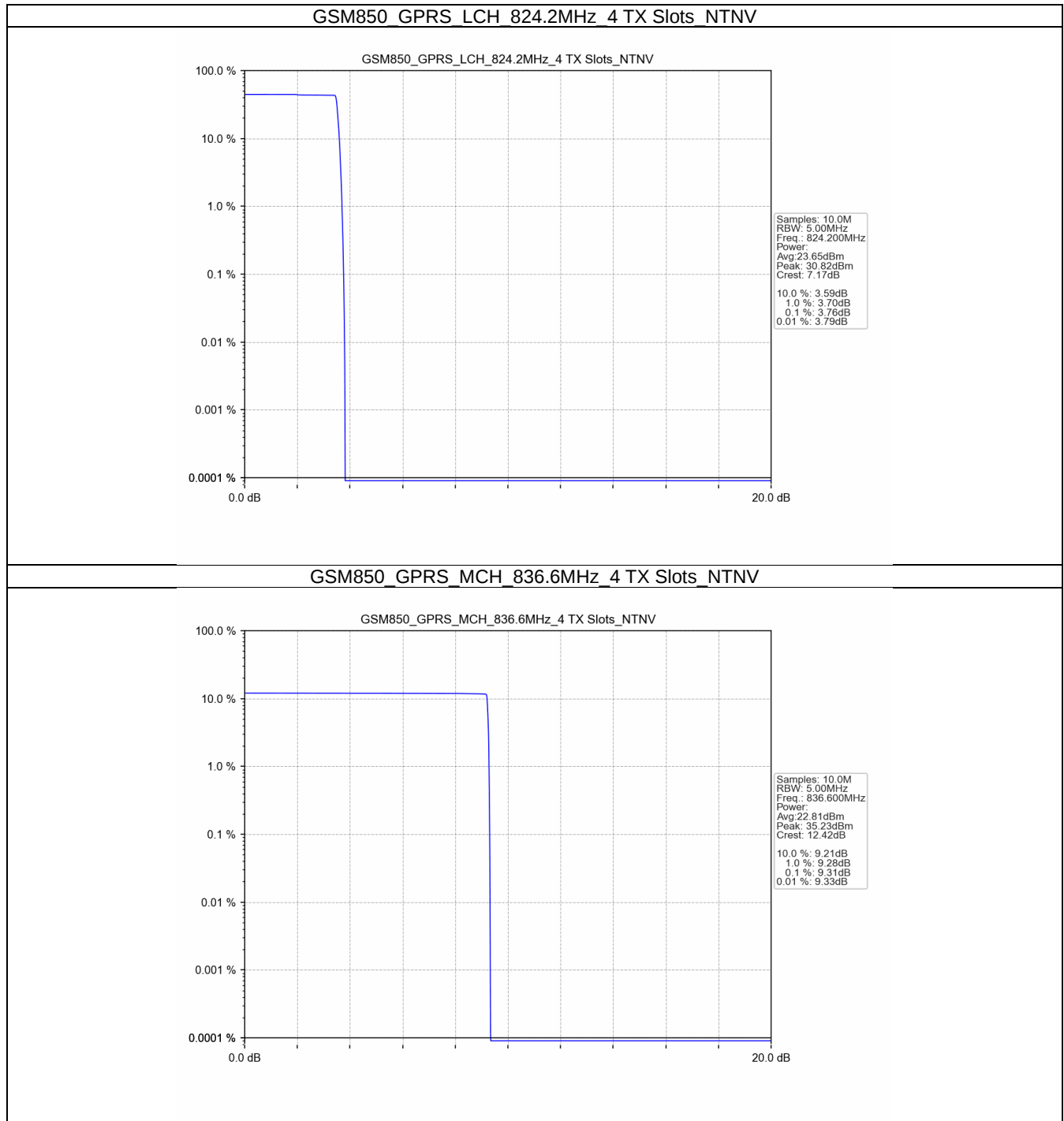
4.1 Test Result

4.1.1 GSM850

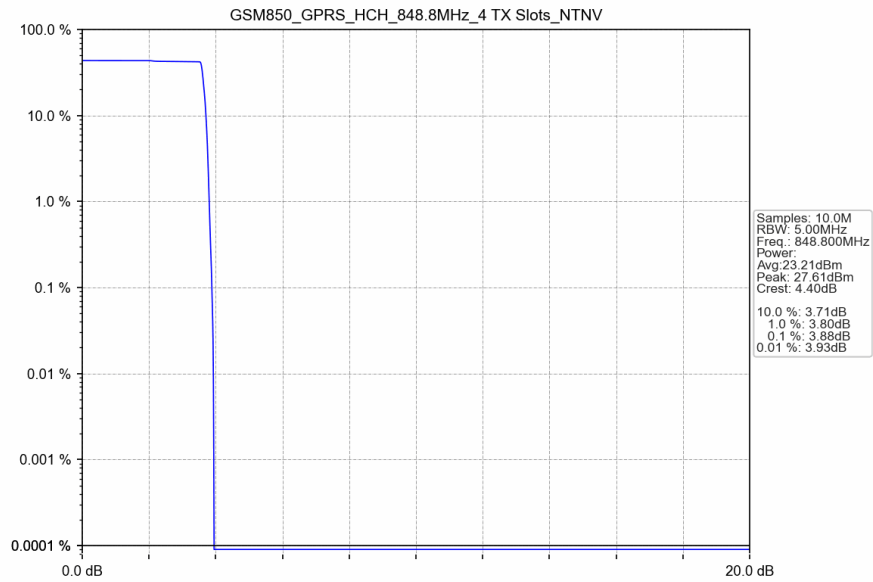
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	3.76	<=13	Pass
			836.6	9.31	<=13	Pass
			848.8	3.88	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.01	<=13	Pass
			836.6	9.77	<=13	Pass
			848.8	7.15	<=13	Pass

4.2 Test Graph

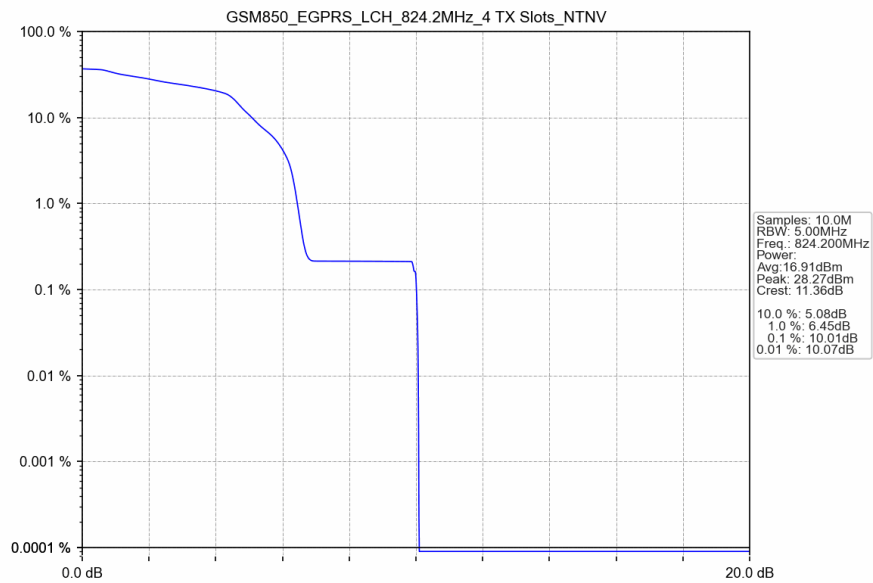
4.2.1 GSM850



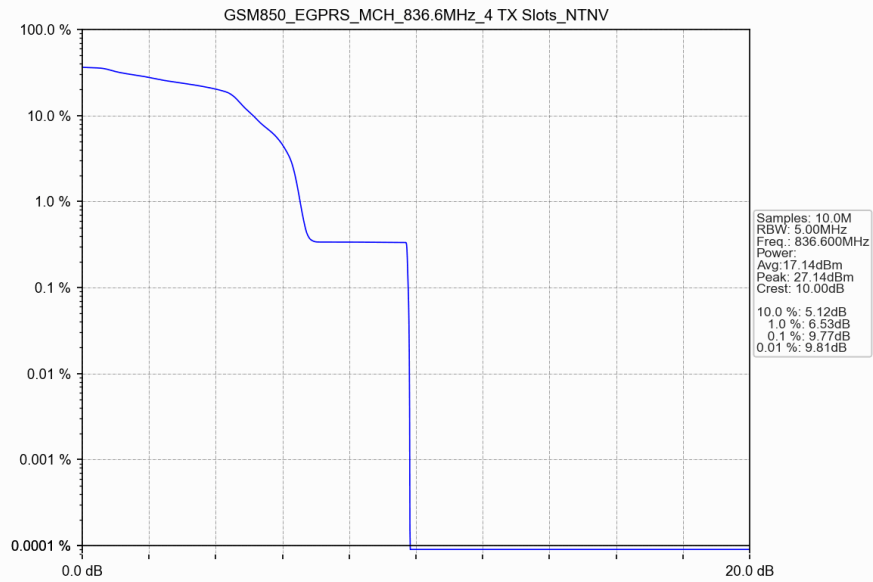
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



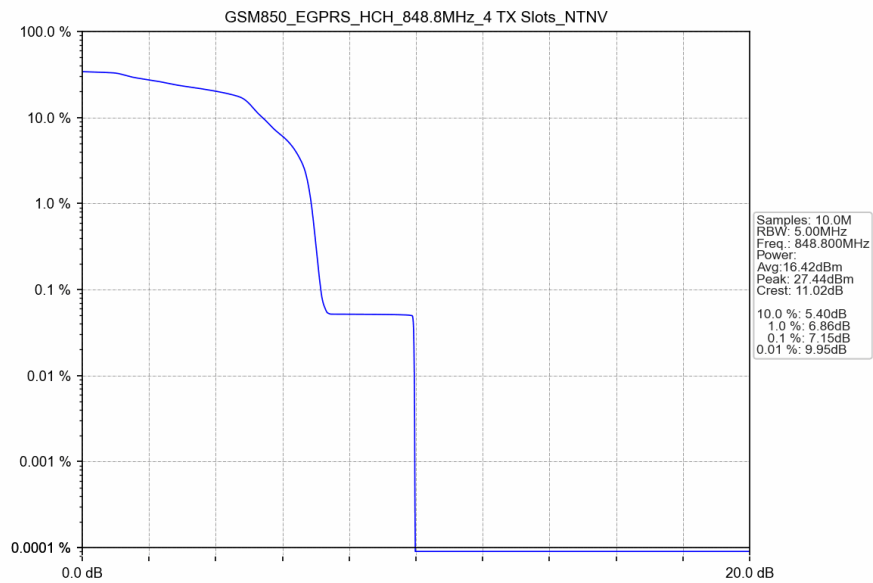
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV





5. Spurious Emission

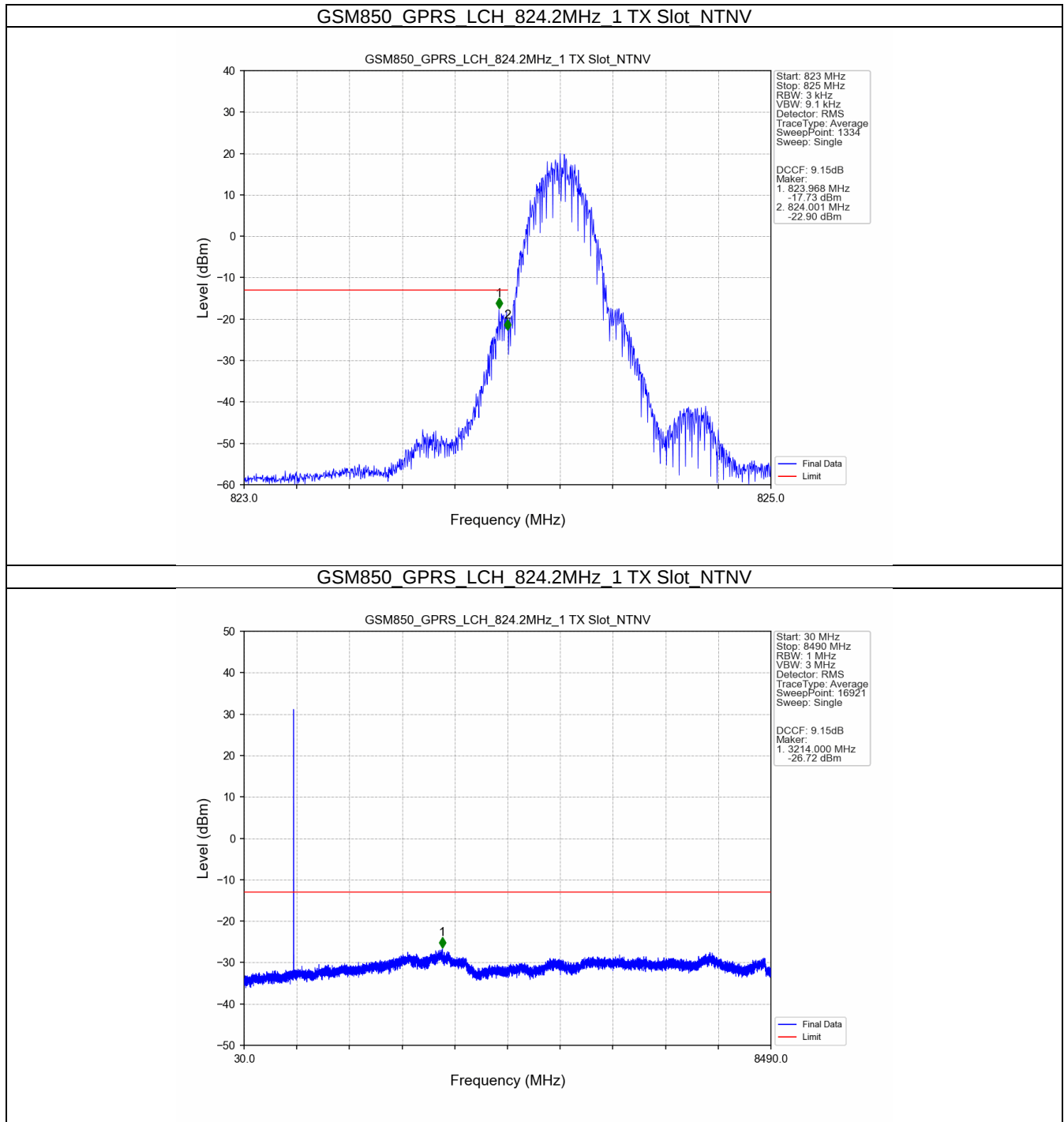
5.1 Test Result

5.1.1 GSM850

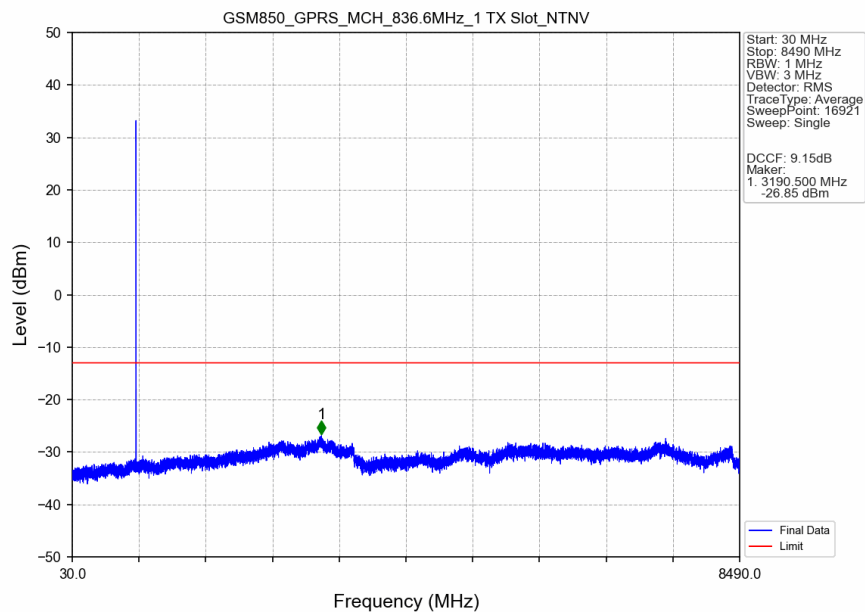
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8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

5.2 Test Graph

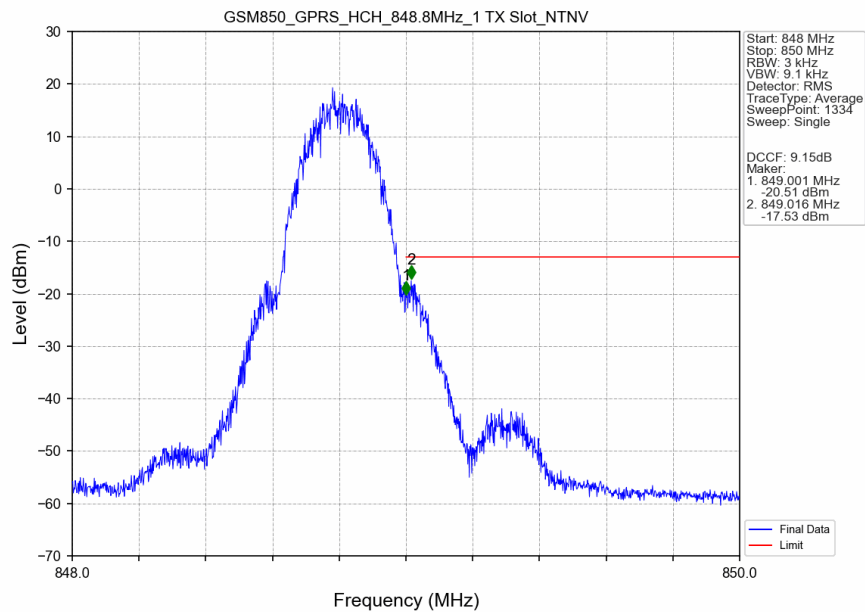
5.2.1 GSM850



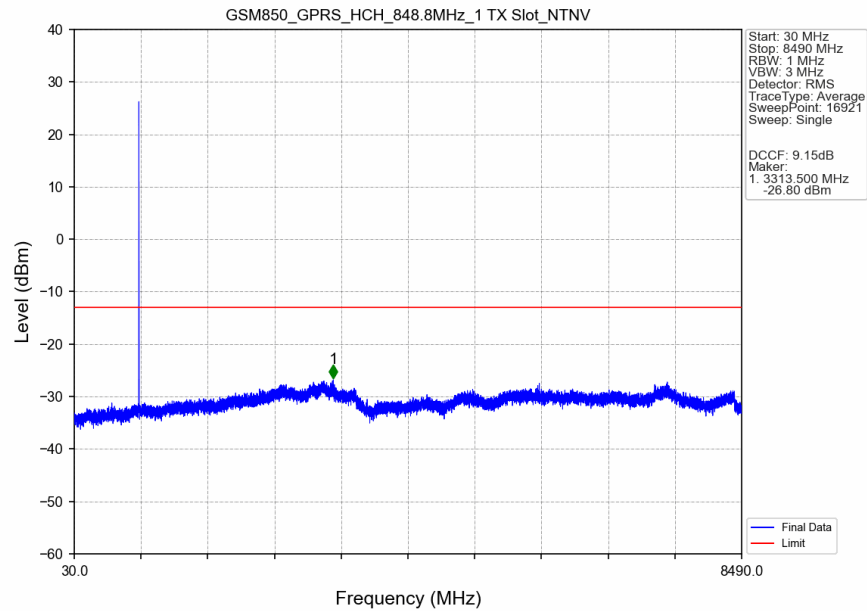
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



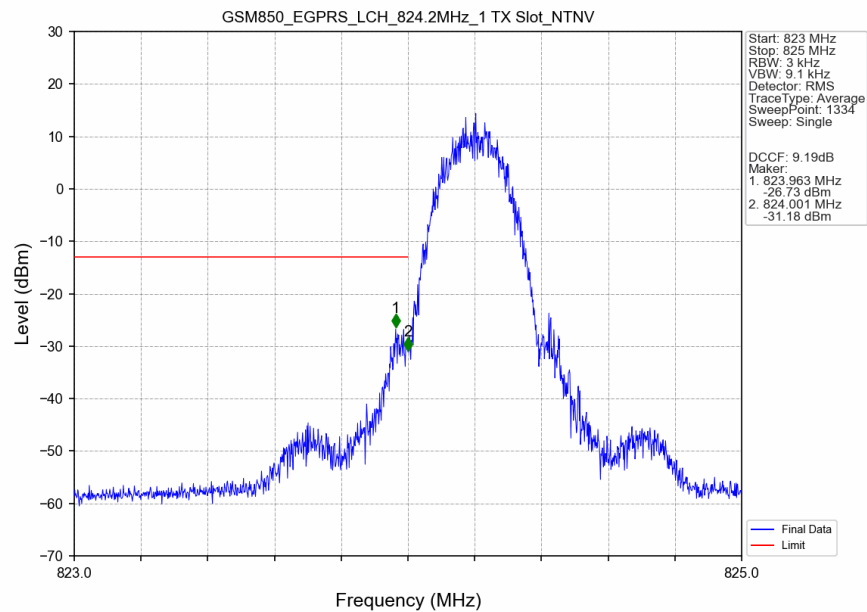
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



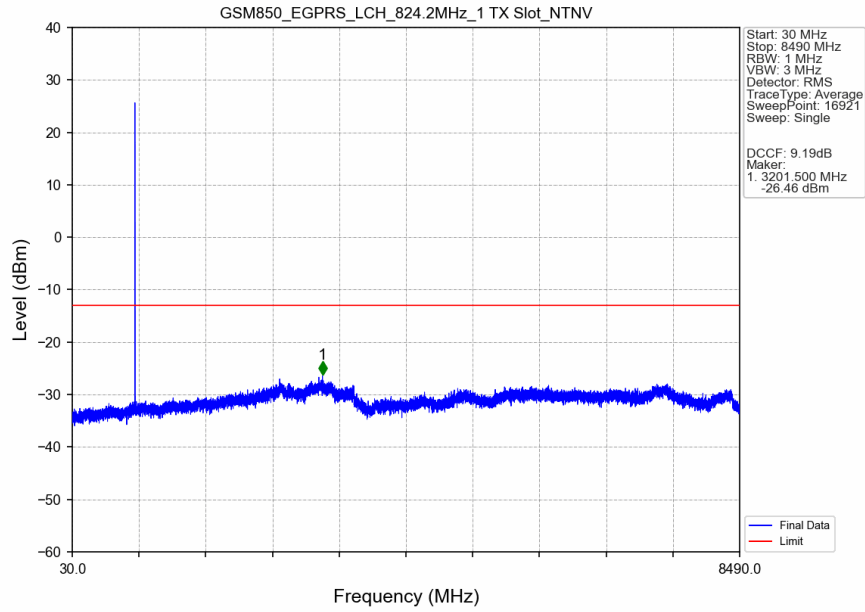
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



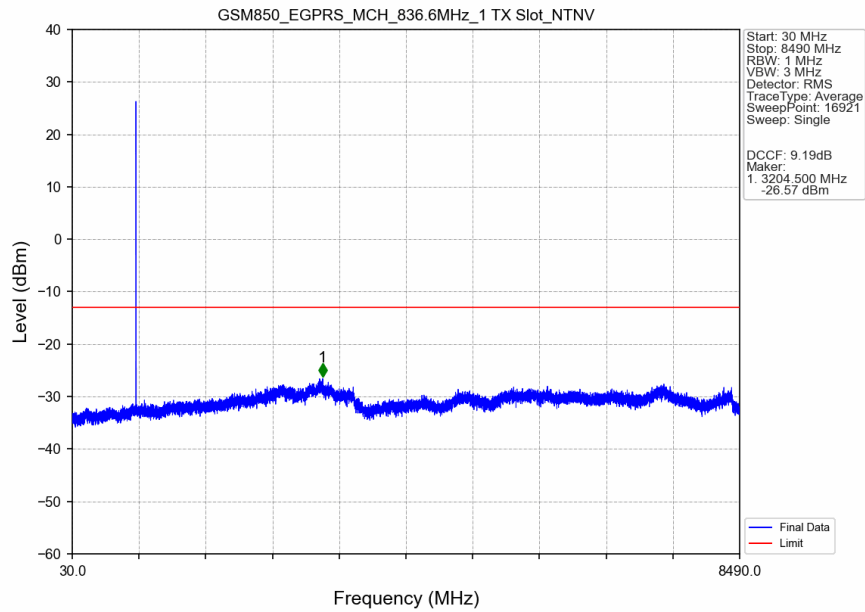
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



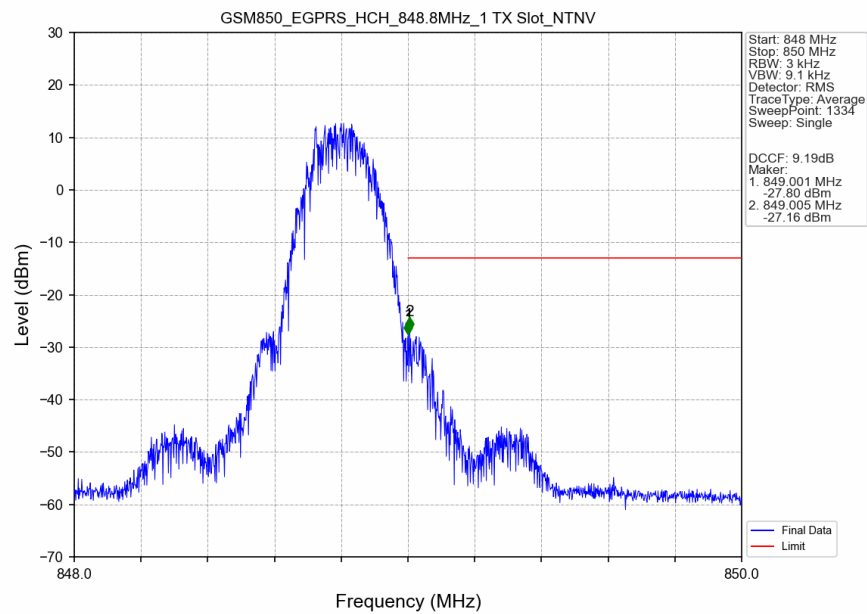
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

