

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	30	-2.92	24.93	<=38.45	Pass
		2 TX Slots	824.2	28.88	-2.92	23.81	<=38.45	Pass
		3 TX Slots	824.2	26.94	-2.92	21.87	<=38.45	Pass
		4 TX Slots	824.2	25.92	-2.92	20.85	<=38.45	Pass
		1 TX Slot	836.6	29.7	-2.92	24.63	<=38.45	Pass
		2 TX Slots	836.6	28.6	-2.92	23.53	<=38.45	Pass
		3 TX Slots	836.6	26.74	-2.92	21.67	<=38.45	Pass
		4 TX Slots	836.6	25.82	-2.92	20.75	<=38.45	Pass
		1 TX Slot	848.8	29.95	-2.92	24.88	<=38.45	Pass
		2 TX Slots	848.8	28.75	-2.92	23.68	<=38.45	Pass
		3 TX Slots	848.8	26.72	-2.92	21.65	<=38.45	Pass
		4 TX Slots	848.8	25.78	-2.92	20.71	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	25.49	-2.92	20.42	<=38.45	Pass
		2 TX Slots	824.2	24.58	-2.92	19.51	<=38.45	Pass
		3 TX Slots	824.2	23.14	-2.92	18.07	<=38.45	Pass
		4 TX Slots	824.2	21.75	-2.92	16.68	<=38.45	Pass
		1 TX Slot	836.6	25.45	-2.92	20.38	<=38.45	Pass
		2 TX Slots	836.6	24.59	-2.92	19.52	<=38.45	Pass
		3 TX Slots	836.6	22.67	-2.92	17.6	<=38.45	Pass
		4 TX Slots	836.6	21.76	-2.92	16.69	<=38.45	Pass
		1 TX Slot	848.8	25.1	-2.92	20.03	<=38.45	Pass
		2 TX Slots	848.8	24.47	-2.92	19.4	<=38.45	Pass
		3 TX Slots	848.8	22.77	-2.92	17.7	<=38.45	Pass
		4 TX Slots	848.8	21.64	-2.92	16.57	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	LV	-6.360	-0.0077	-2.5 to 2.5	Pass
			NV	-7.652	-0.0093	-2.5 to 2.5	Pass
			HV	-8.039	-0.0098	-2.5 to 2.5	Pass
		-30	NV	-6.522	-0.0079	-2.5 to 2.5	Pass
		-20	NV	-7.942	-0.0096	-2.5 to 2.5	Pass
		-10	NV	-8.168	-0.0099	-2.5 to 2.5	Pass
		0	NV	-6.296	-0.0076	-2.5 to 2.5	Pass
		10	NV	-5.133	-0.0062	-2.5 to 2.5	Pass
		30	NV	1.517	0.0018	-2.5 to 2.5	Pass
		40	NV	-4.165	-0.0051	-2.5 to 2.5	Pass
		50	NV	0.936	0.0011	-2.5 to 2.5	Pass
	836.6	20	LV	0.613	0.0007	-2.5 to 2.5	Pass
			NV	2.066	0.0025	-2.5 to 2.5	Pass
			HV	0.323	0.0004	-2.5 to 2.5	Pass
		-30	NV	-1.743	-0.0021	-2.5 to 2.5	Pass
		-20	NV	-4.003	-0.0048	-2.5 to 2.5	Pass
		-10	NV	5.263	0.0063	-2.5 to 2.5	Pass
		0	NV	0.710	0.0008	-2.5 to 2.5	Pass
		10	NV	-0.161	-0.0002	-2.5 to 2.5	Pass
		30	NV	4.294	0.0051	-2.5 to 2.5	Pass
		40	NV	3.229	0.0039	-2.5 to 2.5	Pass
		50	NV	5.811	0.0069	-2.5 to 2.5	Pass
	848.8	20	LV	0.517	0.0006	-2.5 to 2.5	Pass
			NV	-0.517	-0.0006	-2.5 to 2.5	Pass
			HV	0.904	0.0011	-2.5 to 2.5	Pass
		-30	NV	5.392	0.0064	-2.5 to 2.5	Pass
		-20	NV	-0.194	-0.0002	-2.5 to 2.5	Pass
		-10	NV	3.067	0.0036	-2.5 to 2.5	Pass
		0	NV	4.326	0.0051	-2.5 to 2.5	Pass
		10	NV	4.875	0.0057	-2.5 to 2.5	Pass
		30	NV	-0.710	-0.0008	-2.5 to 2.5	Pass
		40	NV	2.131	0.0025	-2.5 to 2.5	Pass
		50	NV	1.453	0.0017	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	-16.724	-0.0203	-2.5 to 2.5	Pass
			NV	-11.042	-0.0134	-2.5 to 2.5	Pass
			HV	-14.561	-0.0177	-2.5 to 2.5	Pass
		-30	NV	-9.589	-0.0116	-2.5 to 2.5	Pass
		-20	NV	-13.237	-0.0161	-2.5 to 2.5	Pass
		-10	NV	-5.133	-0.0062	-2.5 to 2.5	Pass
		0	NV	-7.555	-0.0092	-2.5 to 2.5	Pass
		10	NV	-5.811	-0.0071	-2.5 to 2.5	Pass
		30	NV	-9.040	-0.0110	-2.5 to 2.5	Pass
		40	NV	-8.007	-0.0097	-2.5 to 2.5	Pass
		50	NV	-10.299	-0.0125	-2.5 to 2.5	Pass

	836.6	20	LV	-4.972	-0.0059	-2.5 to 2.5	Pass
			NV	-5.004	-0.0060	-2.5 to 2.5	Pass
			HV	-13.592	-0.0162	-2.5 to 2.5	Pass
		-30	NV	-8.265	-0.0099	-2.5 to 2.5	Pass
		-20	NV	-9.653	-0.0115	-2.5 to 2.5	Pass
		-10	NV	-7.006	-0.0084	-2.5 to 2.5	Pass
		0	NV	-9.105	-0.0109	-2.5 to 2.5	Pass
		10	NV	-6.070	-0.0073	-2.5 to 2.5	Pass
		30	NV	-5.069	-0.0061	-2.5 to 2.5	Pass
		40	NV	-4.229	-0.0051	-2.5 to 2.5	Pass
	848.8	20	LV	-7.845	-0.0092	-2.5 to 2.5	Pass
			NV	-6.522	-0.0077	-2.5 to 2.5	Pass
			HV	-6.909	-0.0081	-2.5 to 2.5	Pass
		-30	NV	-4.229	-0.0050	-2.5 to 2.5	Pass
		-20	NV	-5.747	-0.0068	-2.5 to 2.5	Pass
		-10	NV	-7.910	-0.0093	-2.5 to 2.5	Pass
		0	NV	-6.748	-0.0080	-2.5 to 2.5	Pass
		10	NV	-6.974	-0.0082	-2.5 to 2.5	Pass
		30	NV	-9.363	-0.0110	-2.5 to 2.5	Pass
		40	NV	-8.975	-0.0106	-2.5 to 2.5	Pass
		50	NV	-2.389	-0.0028	-2.5 to 2.5	Pass



3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

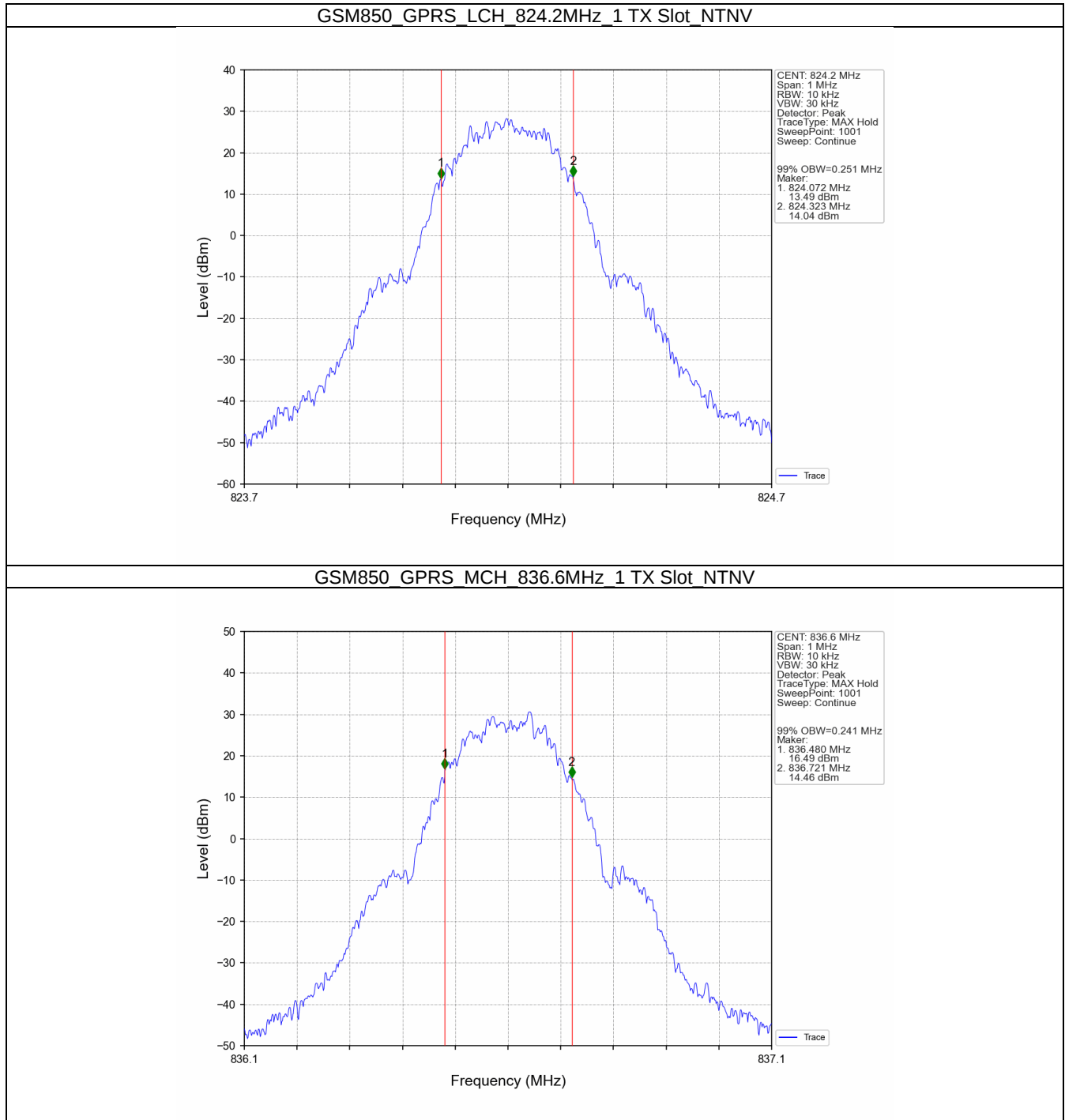
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.251	/	Pass
			836.6	0.241	/	Pass
			848.8	0.245	/	Pass
	EGPRS	1 TX Slot	824.2	0.248	/	Pass
			836.6	0.251	/	Pass
			848.8	0.245	/	Pass

3.1.2 GSM850_XDB

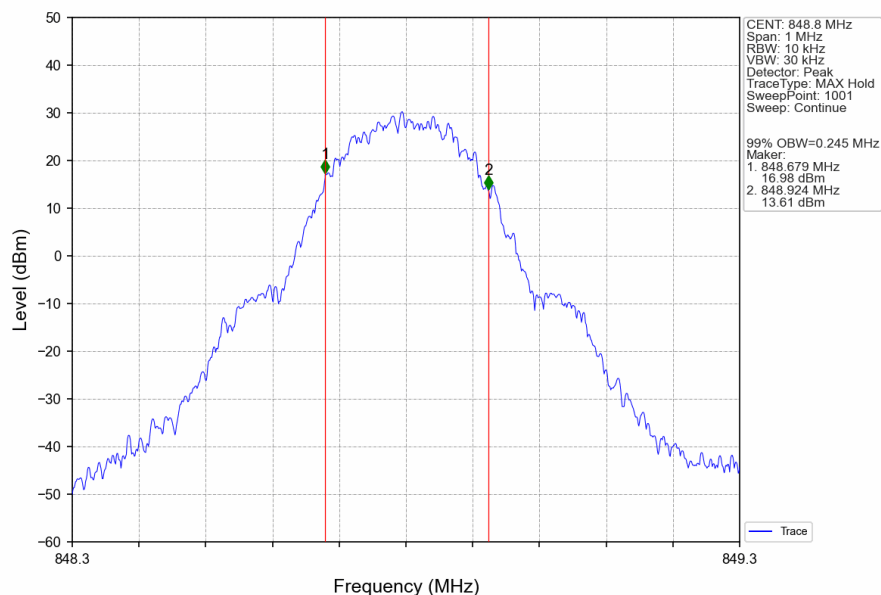
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.317	/	Pass
			836.6	0.312	/	Pass
			848.8	0.317	/	Pass
	EGPRS	1 TX Slot	824.2	0.314	/	Pass
			836.6	0.334	/	Pass
			848.8	0.304	/	Pass

3.2 Test Graph

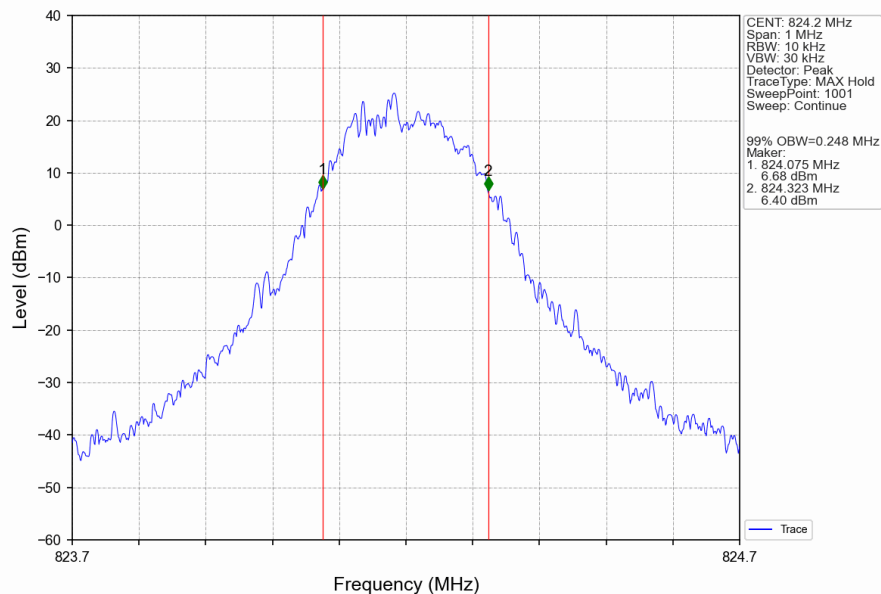
3.2.1 GSM850_OBW



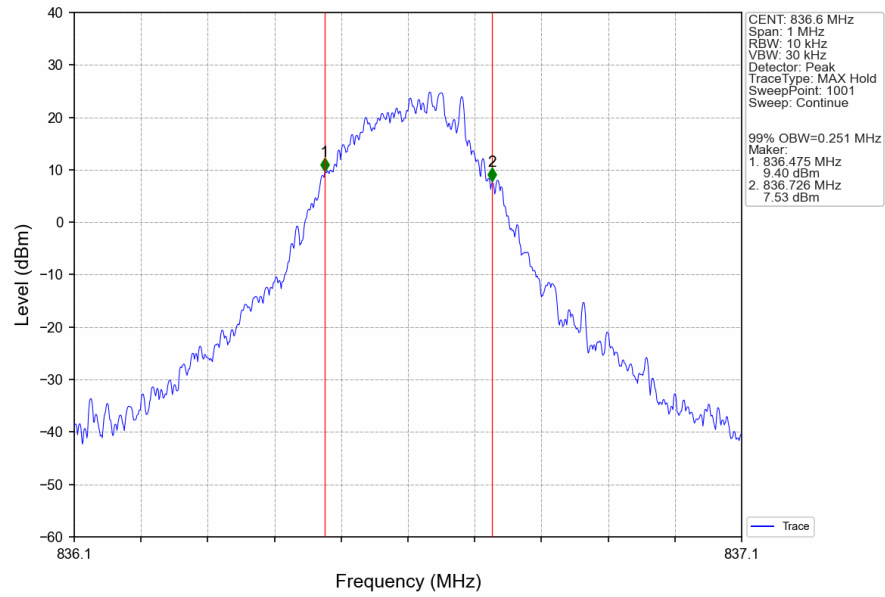
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



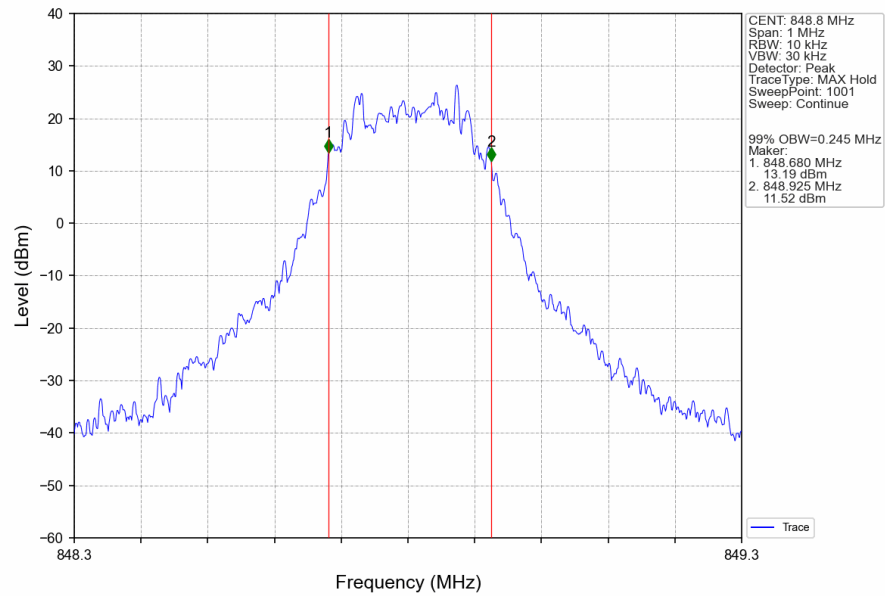
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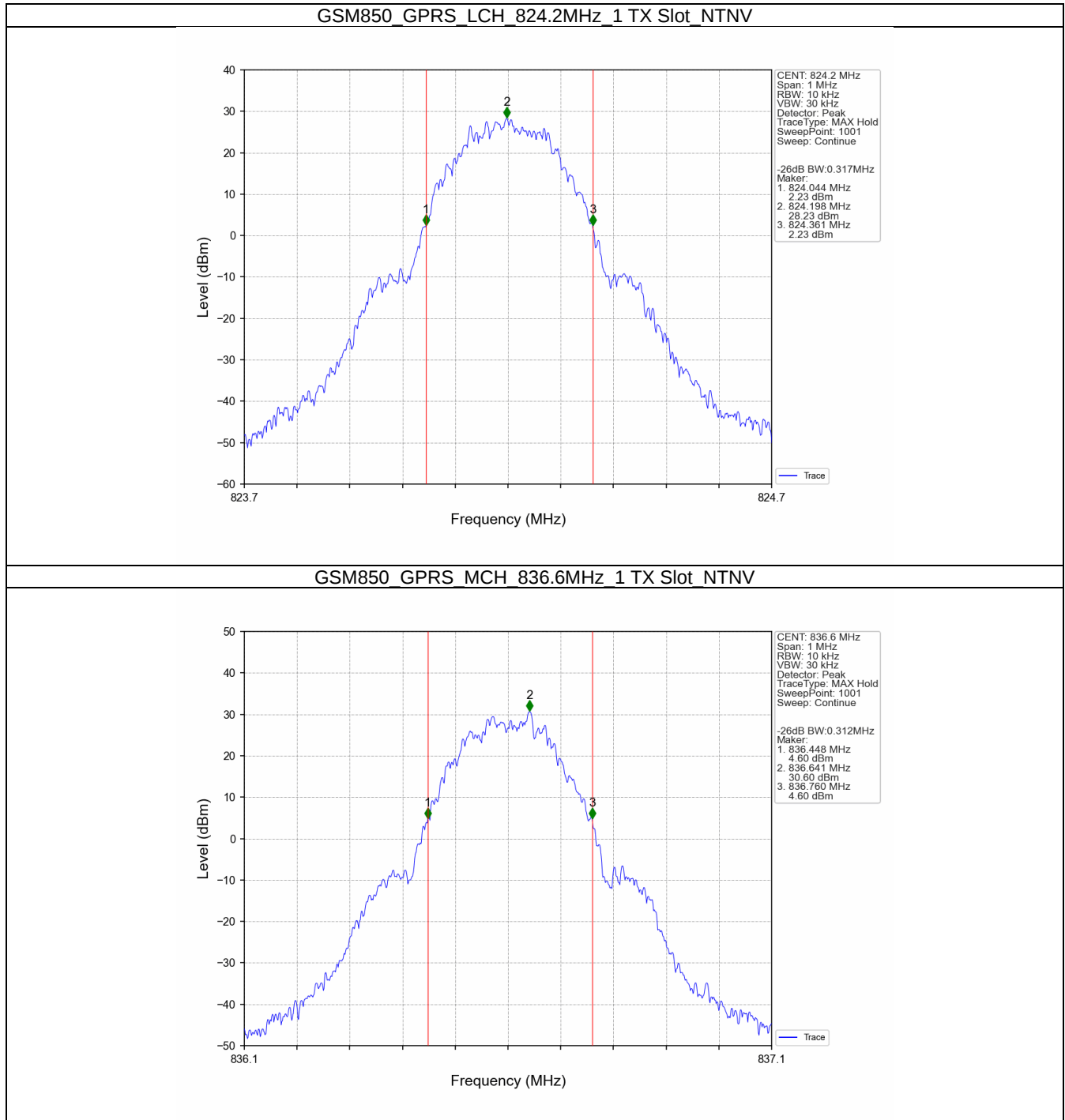
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



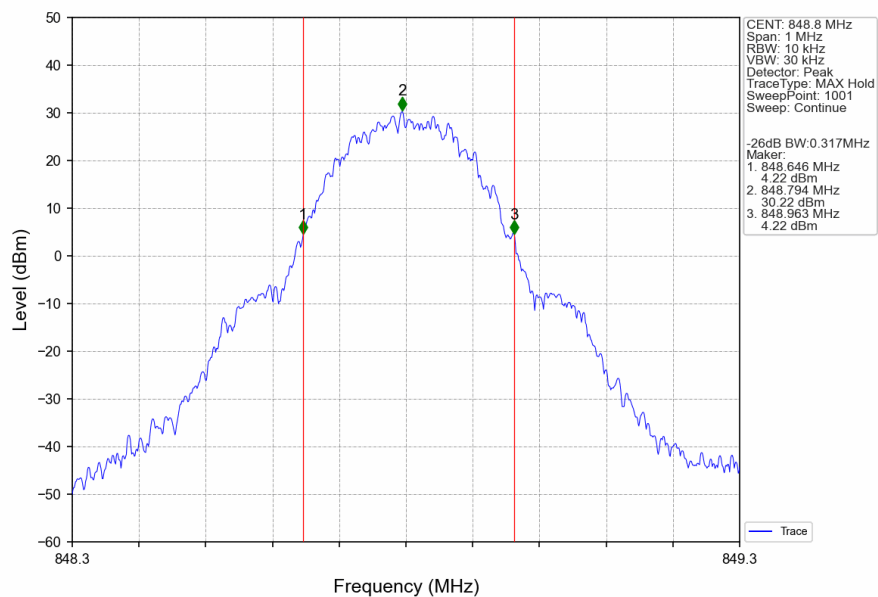
GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



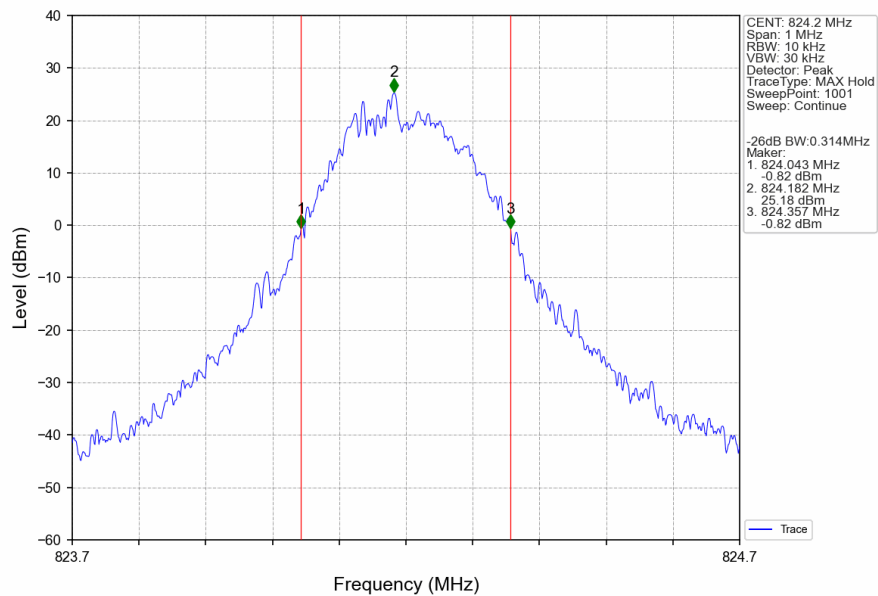
3.2.2 GSM850_XDB



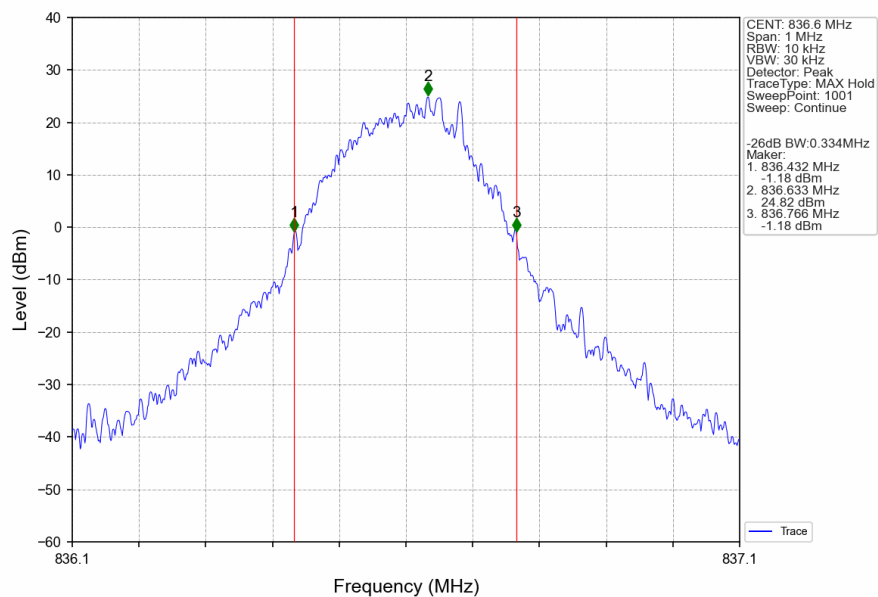
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



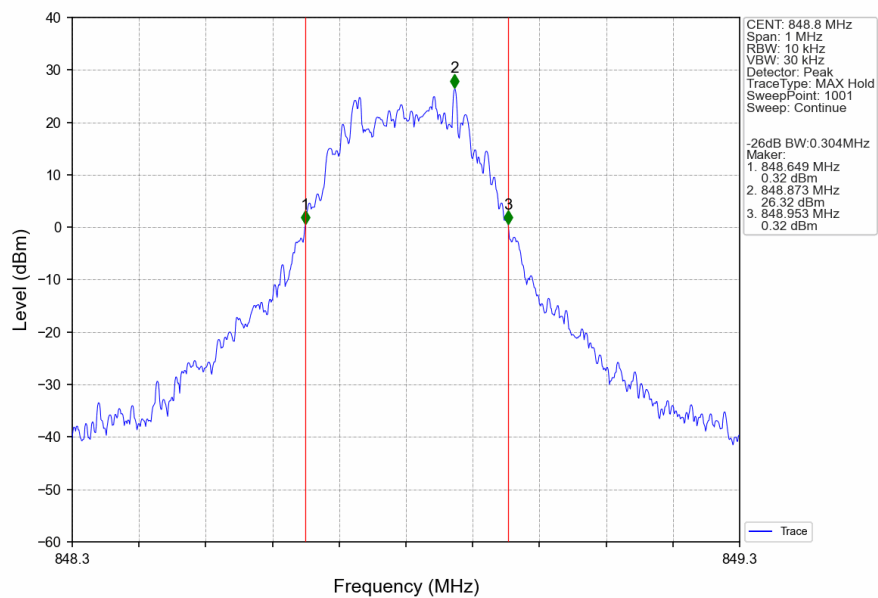
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

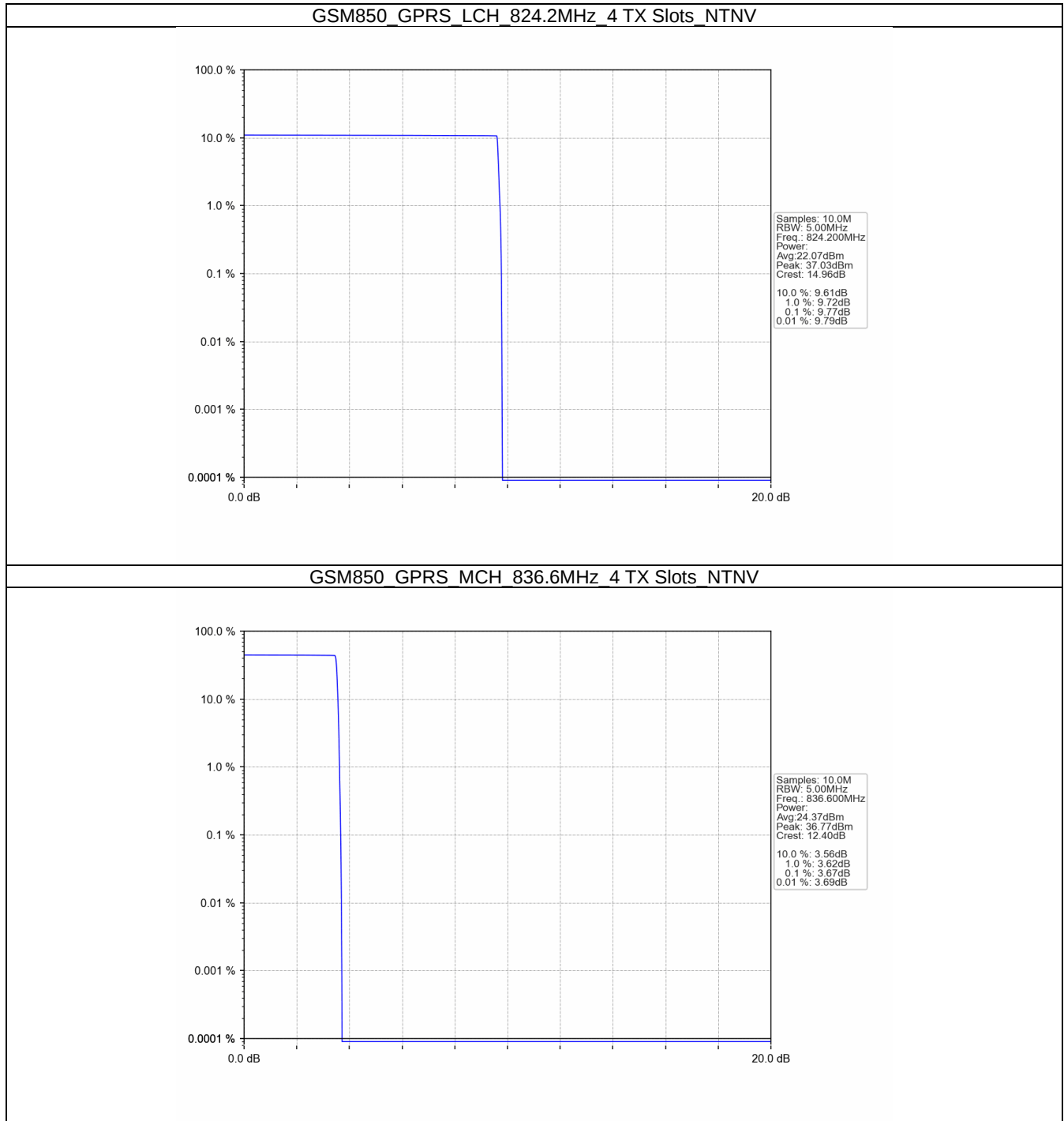
4.1 Test Result

4.1.1 GSM850

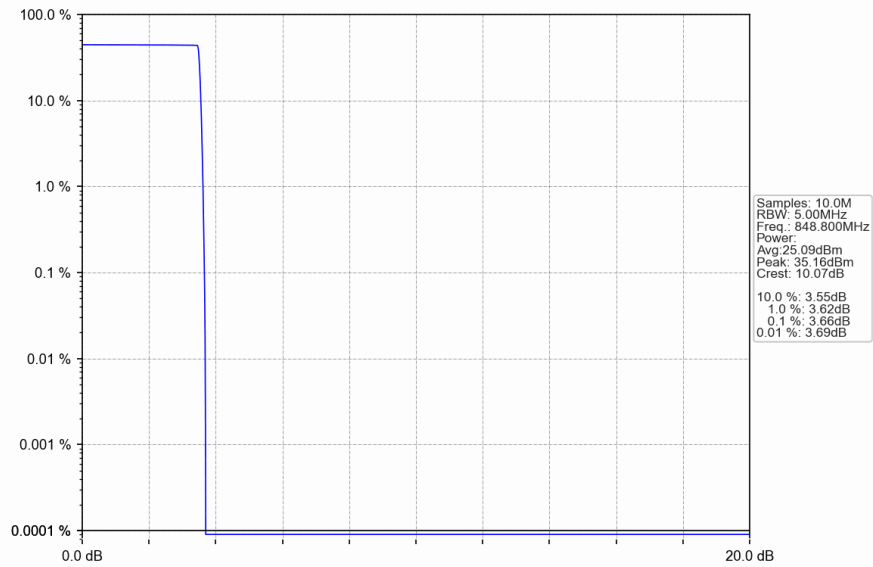
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.77	<=13	Pass
			836.6	3.67	<=13	Pass
			848.8	3.66	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.80	<=13	Pass
			836.6	10.15	<=13	Pass
			848.8	10.82	<=13	Pass

4.2 Test Graph

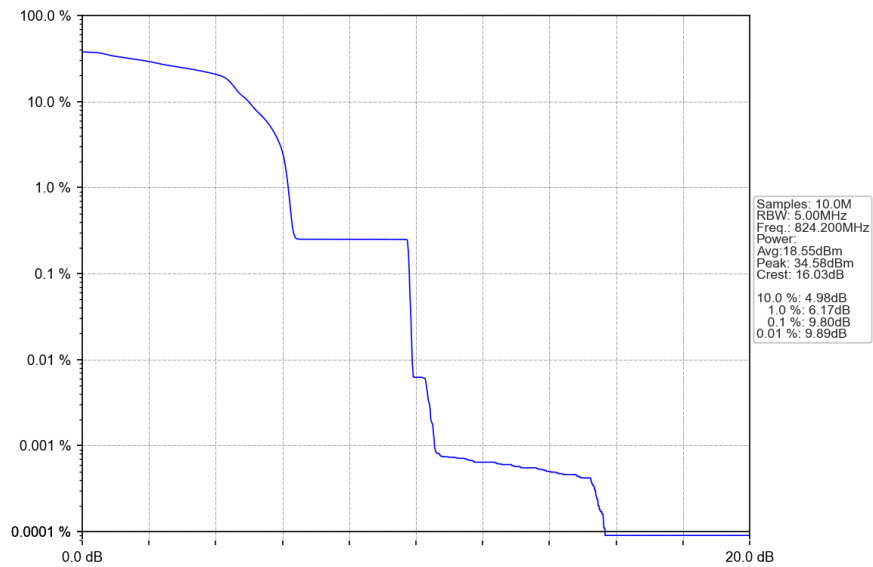
4.2.1 GSM850



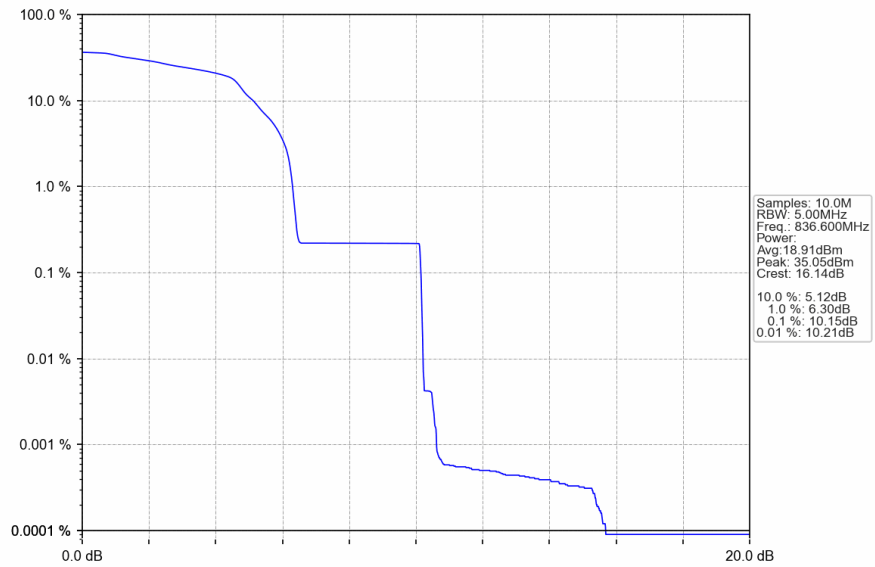
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



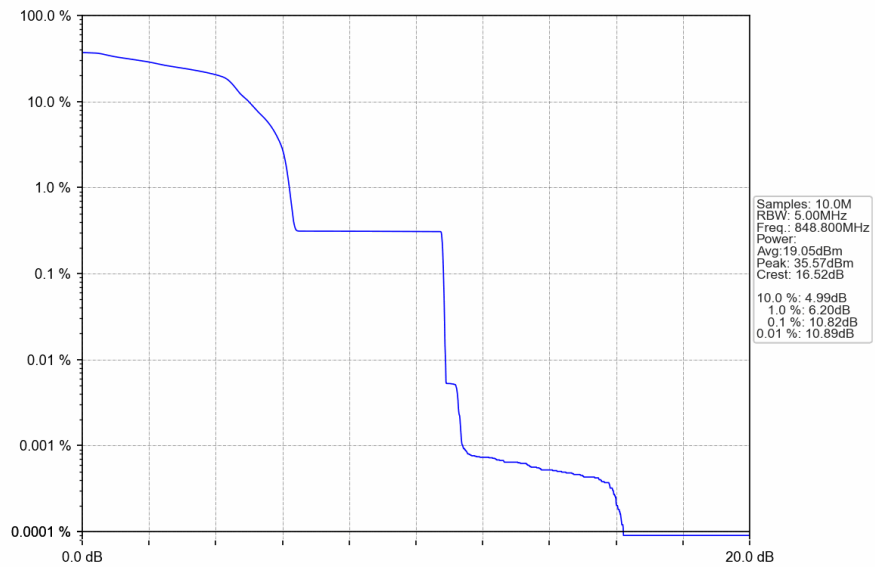
GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV





5. Spurious Emission

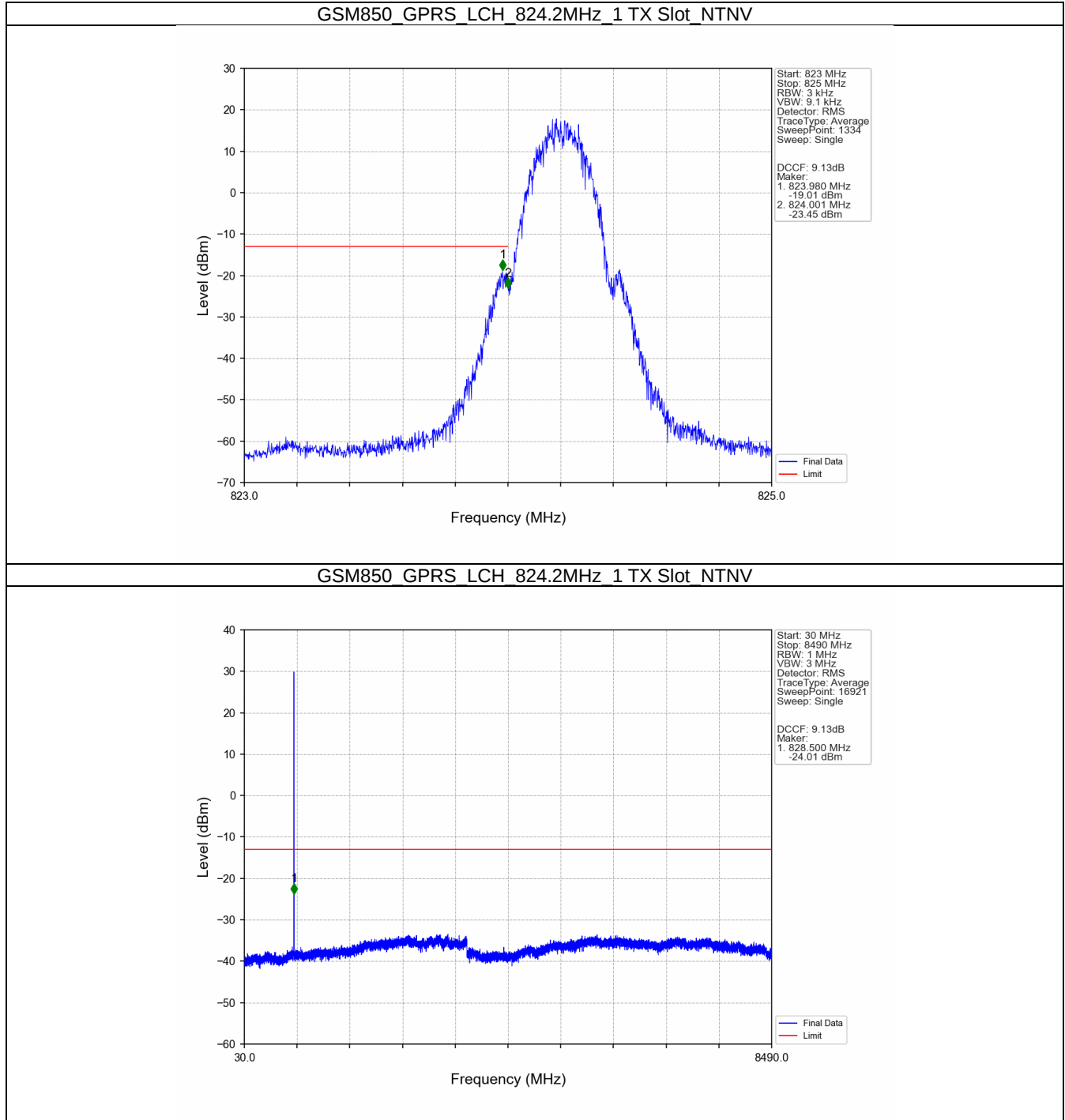
5.1 Test Result

5.1.1 GSM850

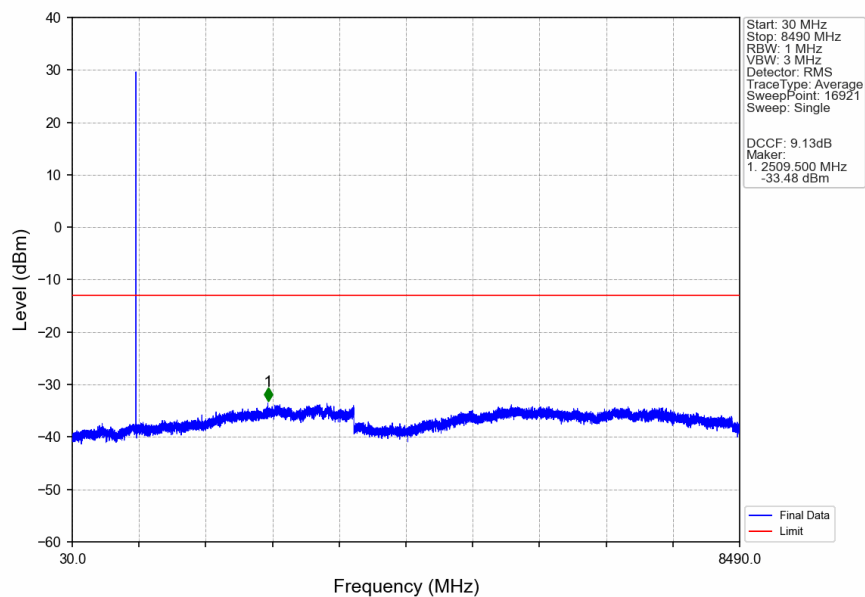
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8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

5.2 Test Graph

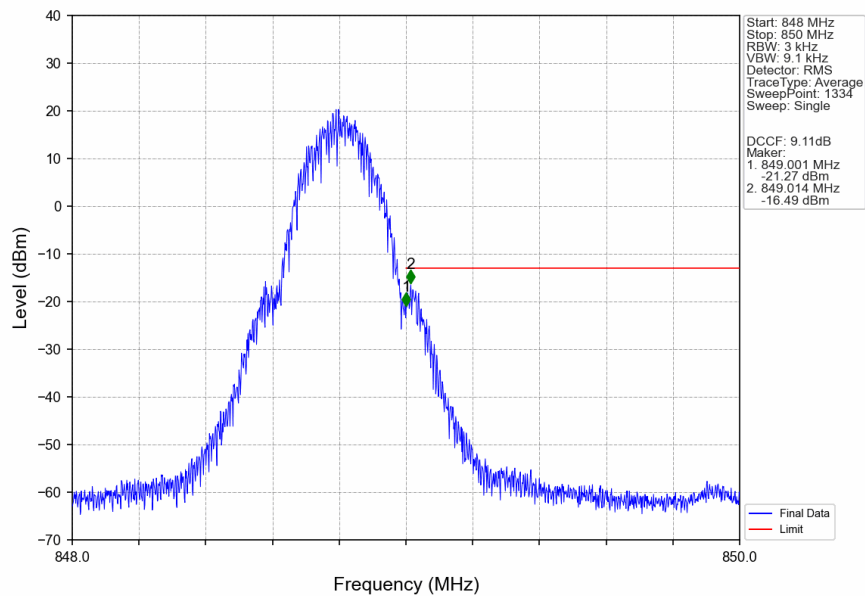
5.2.1 GSM850



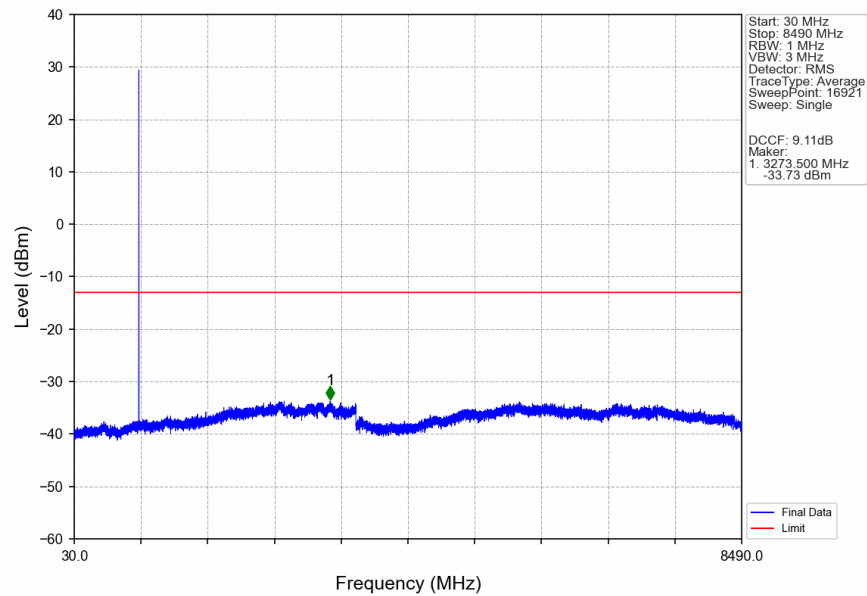
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



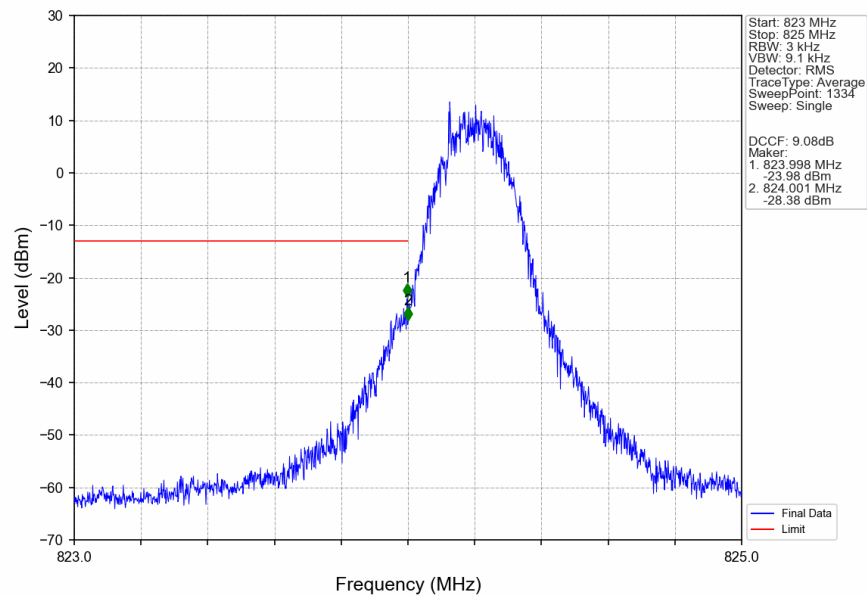
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



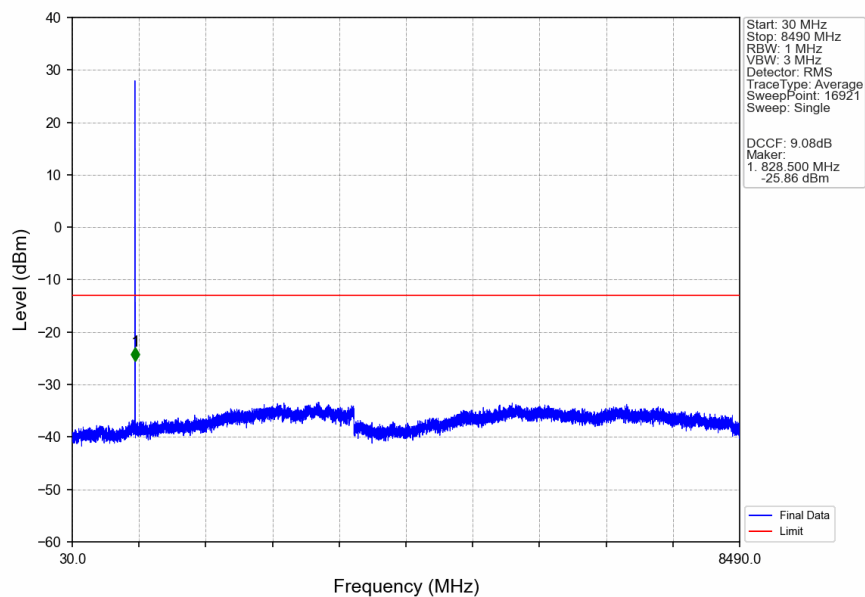
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



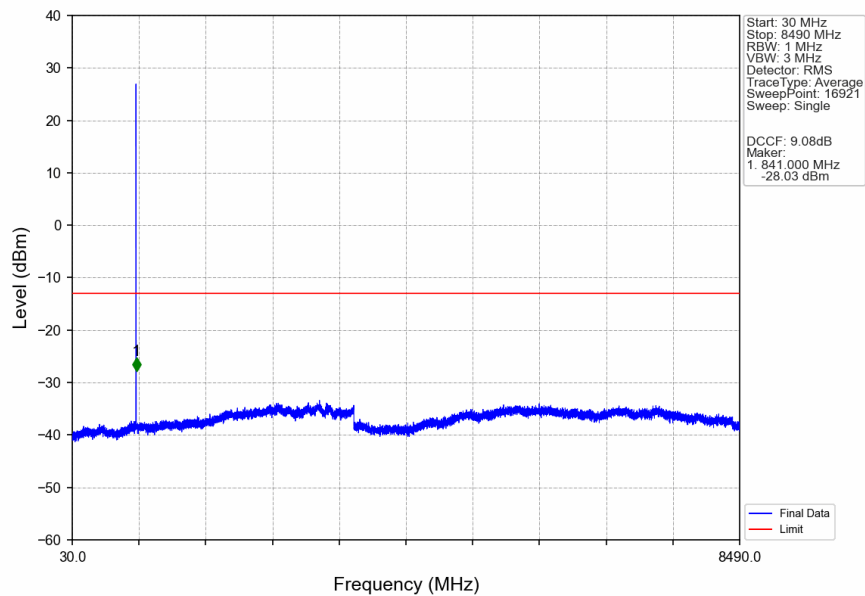
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



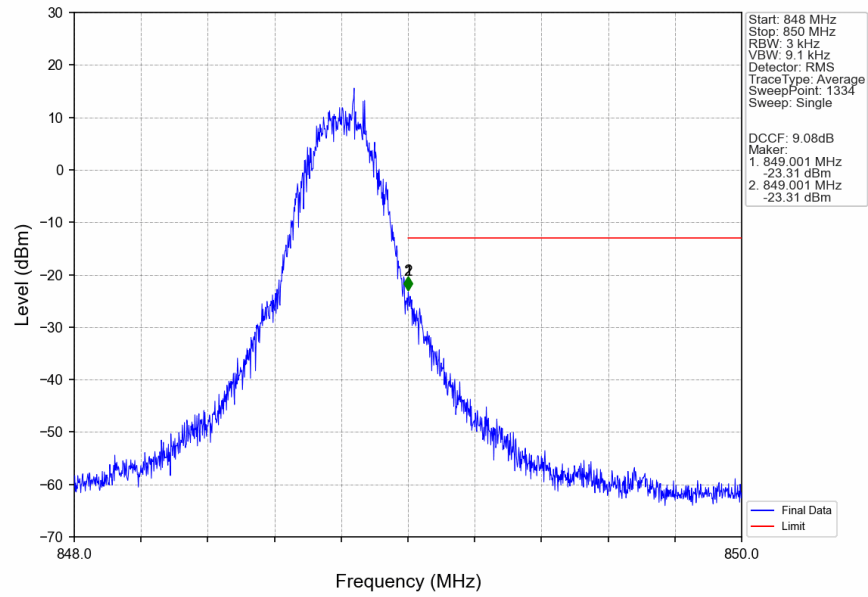
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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

