

1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

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	33.24	-4.69	26.4	<=38.45	Pass
		2 TX Slots	824.2	30.73	-4.69	23.89	<=38.45	Pass
		3 TX Slots	824.2	28.94	-4.69	22.1	<=38.45	Pass
		4 TX Slots	824.2	26.71	-4.69	19.87	<=38.45	Pass
		1 TX Slot	836.6	33.54	-4.69	26.7	<=38.45	Pass
		2 TX Slots	836.6	31.10	-4.69	24.26	<=38.45	Pass
		3 TX Slots	836.6	29.41	-4.69	22.57	<=38.45	Pass
		4 TX Slots	836.6	26.76	-4.69	19.92	<=38.45	Pass
		1 TX Slot	848.8	33.58	-4.69	26.74	<=38.45	Pass
		2 TX Slots	848.8	30.89	-4.69	24.05	<=38.45	Pass
		3 TX Slots	848.8	29.09	-4.69	22.25	<=38.45	Pass
		4 TX Slots	848.8	26.44	-4.69	19.6	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	25.66	-4.69	18.82	<=38.45	Pass
		2 TX Slots	824.2	25.50	-4.69	18.66	<=38.45	Pass
		3 TX Slots	824.2	24.31	-4.69	17.47	<=38.45	Pass
		4 TX Slots	824.2	23.29	-4.69	16.45	<=38.45	Pass
		1 TX Slot	836.6	26.07	-4.69	19.23	<=38.45	Pass
		2 TX Slots	836.6	25.87	-4.69	19.03	<=38.45	Pass
		3 TX Slots	836.6	24.58	-4.69	17.74	<=38.45	Pass
		4 TX Slots	836.6	23.64	-4.69	16.8	<=38.45	Pass
		1 TX Slot	848.8	25.83	-4.69	18.99	<=38.45	Pass
		2 TX Slots	848.8	27.24	-4.69	20.4	<=38.45	Pass
		3 TX Slots	848.8	24.43	-4.69	17.59	<=38.45	Pass
		4 TX Slots	848.8	23.20	-4.69	16.36	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	824.2	20	3.60	27.708	0.0336	-2.5 to 2.5	Pass
			3.80	24.918	0.0302	-2.5 to 2.5	Pass
			4.35	25.999	0.0315	-2.5 to 2.5	Pass
		-30	3.80	27.518	0.0334	-2.5 to 2.5	Pass
		-20	3.80	26.531	0.0322	-2.5 to 2.5	Pass
		-10	3.80	24.395	0.0296	-2.5 to 2.5	Pass
		0	3.80	24.561	0.0298	-2.5 to 2.5	Pass
		10	3.80	23.810	0.0289	-2.5 to 2.5	Pass

		30	3.80	24.503	0.0297	-2.5 to 2.5	Pass
		40	3.80	23.746	0.0288	-2.5 to 2.5	Pass
		50	3.80	23.861	0.0290	-2.5 to 2.5	Pass
	836.6	20	3.60	25.600	0.0306	-2.5 to 2.5	Pass
			3.80	25.734	0.0308	-2.5 to 2.5	Pass
			4.35	26.457	0.0316	-2.5 to 2.5	Pass
		-30	3.80	24.465	0.0292	-2.5 to 2.5	Pass
		-20	3.80	24.378	0.0291	-2.5 to 2.5	Pass
		-10	3.80	23.066	0.0276	-2.5 to 2.5	Pass
		0	3.80	24.303	0.0290	-2.5 to 2.5	Pass
		10	3.80	23.928	0.0286	-2.5 to 2.5	Pass
		30	3.80	26.968	0.0322	-2.5 to 2.5	Pass
		40	3.80	25.536	0.0305	-2.5 to 2.5	Pass
		50	3.80	27.900	0.0333	-2.5 to 2.5	Pass
	848.8	20	3.60	28.186	0.0332	-2.5 to 2.5	Pass
			3.80	27.270	0.0321	-2.5 to 2.5	Pass
			4.35	25.012	0.0295	-2.5 to 2.5	Pass
		-30	3.80	26.825	0.0316	-2.5 to 2.5	Pass
		-20	3.80	24.812	0.0292	-2.5 to 2.5	Pass
		-10	3.80	25.825	0.0304	-2.5 to 2.5	Pass
		0	3.80	27.705	0.0326	-2.5 to 2.5	Pass
		10	3.80	25.456	0.0300	-2.5 to 2.5	Pass
		30	3.80	27.503	0.0324	-2.5 to 2.5	Pass
		40	3.80	27.346	0.0322	-2.5 to 2.5	Pass
		50	3.80	27.922	0.0329	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.60	34.063	0.0413	-2.5 to 2.5	Pass
			3.80	37.534	0.0455	-2.5 to 2.5	Pass
			4.35	34.213	0.0415	-2.5 to 2.5	Pass
		-30	3.80	31.567	0.0383	-2.5 to 2.5	Pass
		-20	3.80	32.687	0.0397	-2.5 to 2.5	Pass
		-10	3.80	29.915	0.0363	-2.5 to 2.5	Pass
		0	3.80	33.536	0.0407	-2.5 to 2.5	Pass
		10	3.80	34.873	0.0423	-2.5 to 2.5	Pass
		30	3.80	31.873	0.0387	-2.5 to 2.5	Pass
		40	3.80	31.959	0.0388	-2.5 to 2.5	Pass
		50	3.80	31.206	0.0379	-2.5 to 2.5	Pass
	836.6	20	3.60	31.002	0.0371	-2.5 to 2.5	Pass
			3.80	32.526	0.0389	-2.5 to 2.5	Pass
			4.35	31.890	0.0381	-2.5 to 2.5	Pass
		-30	3.80	30.680	0.0367	-2.5 to 2.5	Pass
		-20	3.80	30.110	0.0360	-2.5 to 2.5	Pass
		-10	3.80	30.332	0.0363	-2.5 to 2.5	Pass
		0	3.80	30.021	0.0359	-2.5 to 2.5	Pass
		10	3.80	30.248	0.0362	-2.5 to 2.5	Pass
		30	3.80	31.673	0.0379	-2.5 to 2.5	Pass
		40	3.80	29.709	0.0355	-2.5 to 2.5	Pass
		50	3.80	29.744	0.0356	-2.5 to 2.5	Pass
	848.8	20	3.60	30.818	0.0363	-2.5 to 2.5	Pass
			3.80	29.600	0.0349	-2.5 to 2.5	Pass
			4.35	28.408	0.0335	-2.5 to 2.5	Pass
		-30	3.80	29.537	0.0348	-2.5 to 2.5	Pass
		-20	3.80	29.678	0.0350	-2.5 to 2.5	Pass
		-10	3.80	29.796	0.0351	-2.5 to 2.5	Pass
		0	3.80	28.936	0.0341	-2.5 to 2.5	Pass
		10	3.80	28.530	0.0336	-2.5 to 2.5	Pass
		30	3.80	30.612	0.0361	-2.5 to 2.5	Pass
		40	3.80	32.517	0.0383	-2.5 to 2.5	Pass

		50	3.80	30.276	0.0357	-2.5 to 2.5	Pass
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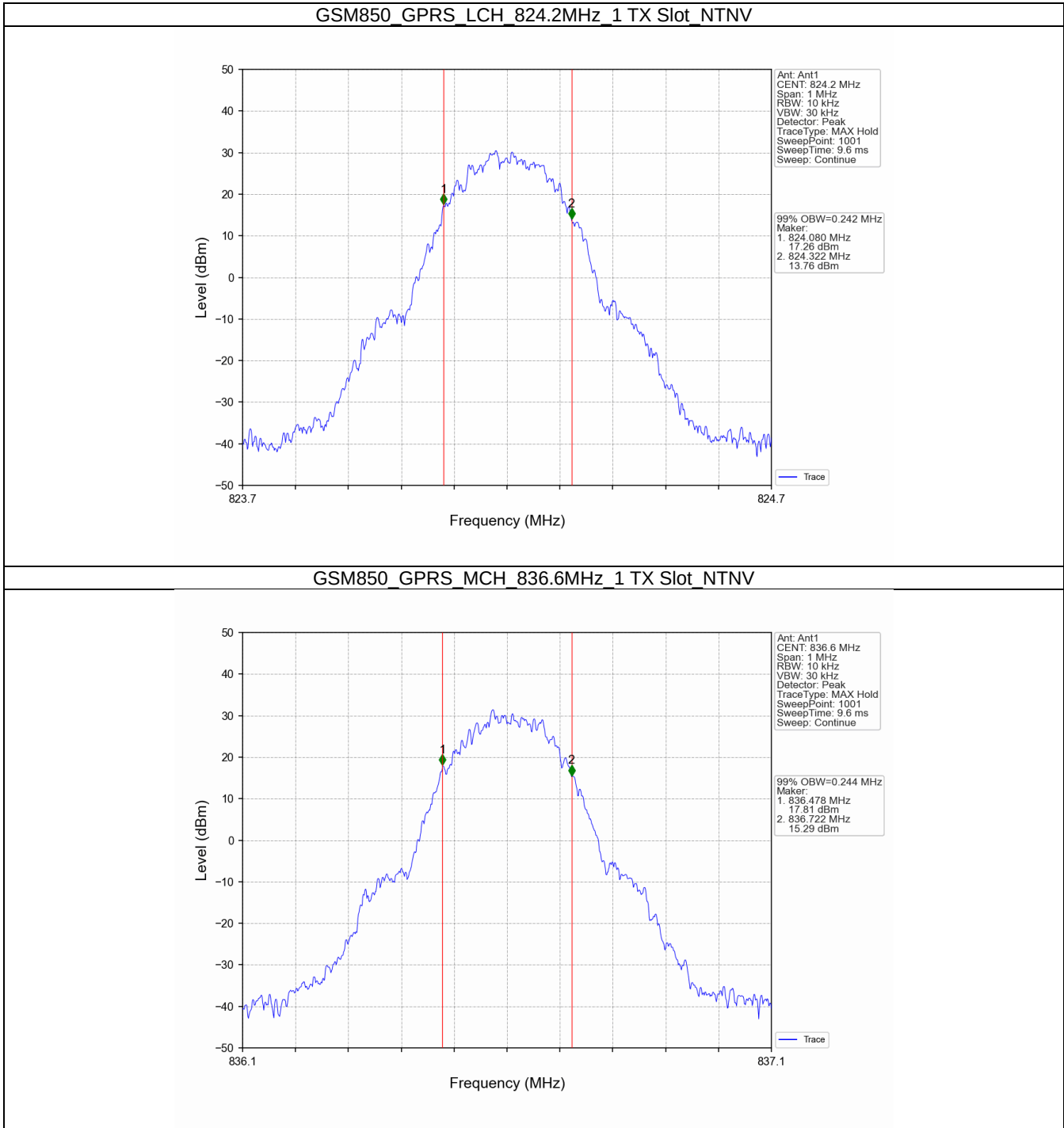
3. 99% & 26dB Bandwidth

3.1 GSM850_OBW

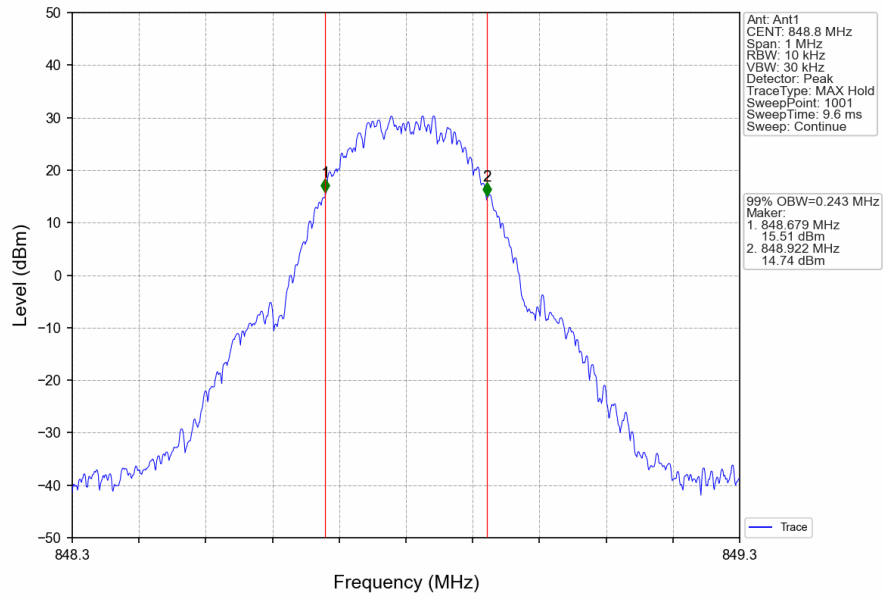
3.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.242	/	Pass
			836.6	0.244	/	Pass
			848.8	0.243	/	Pass
	EGPRS	1 TX Slot	824.2	0.224	/	Pass
			836.6	0.242	/	Pass
			848.8	0.239	/	Pass

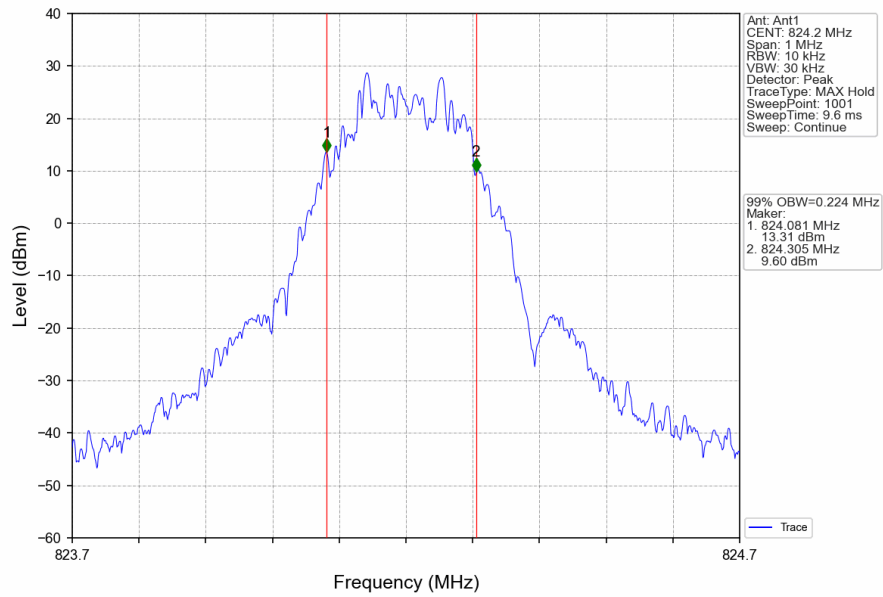
3.1.2 Test Graph



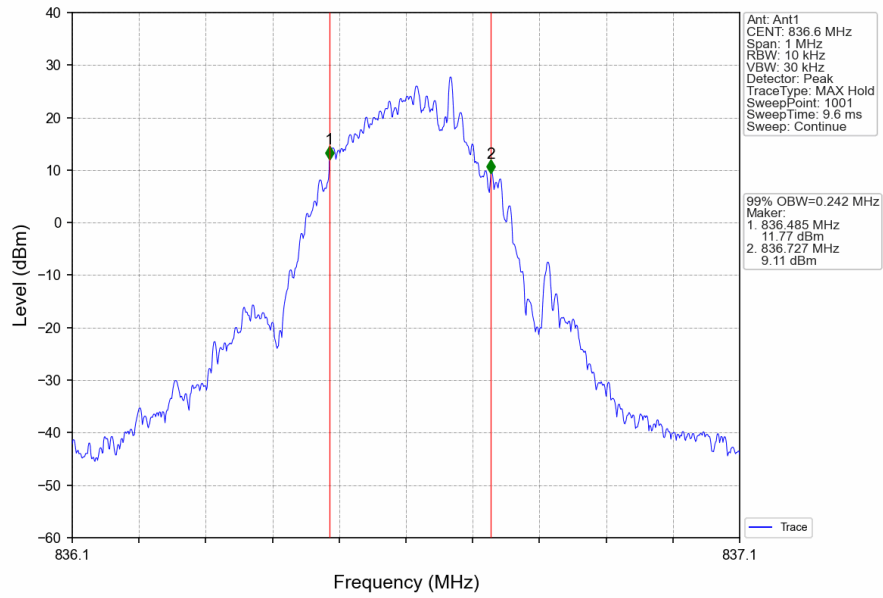
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



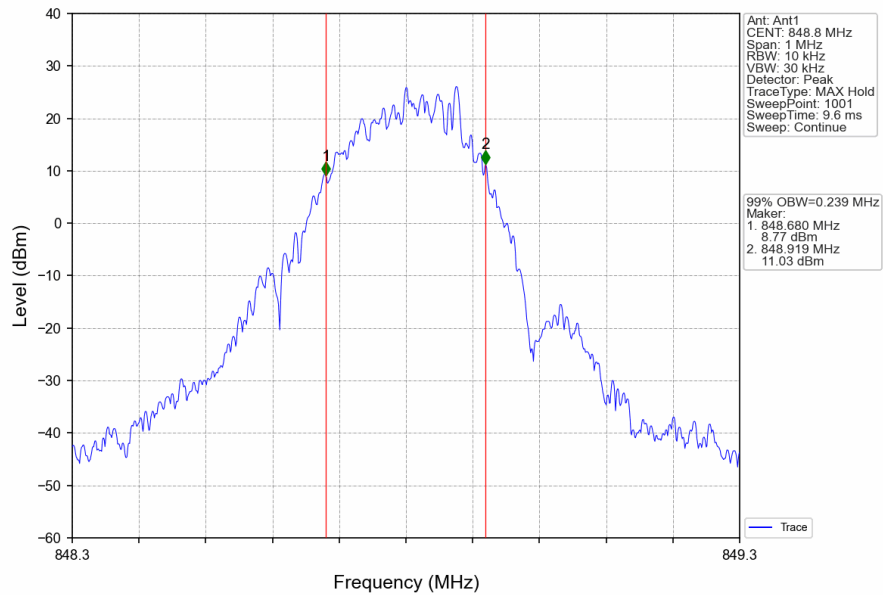
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV

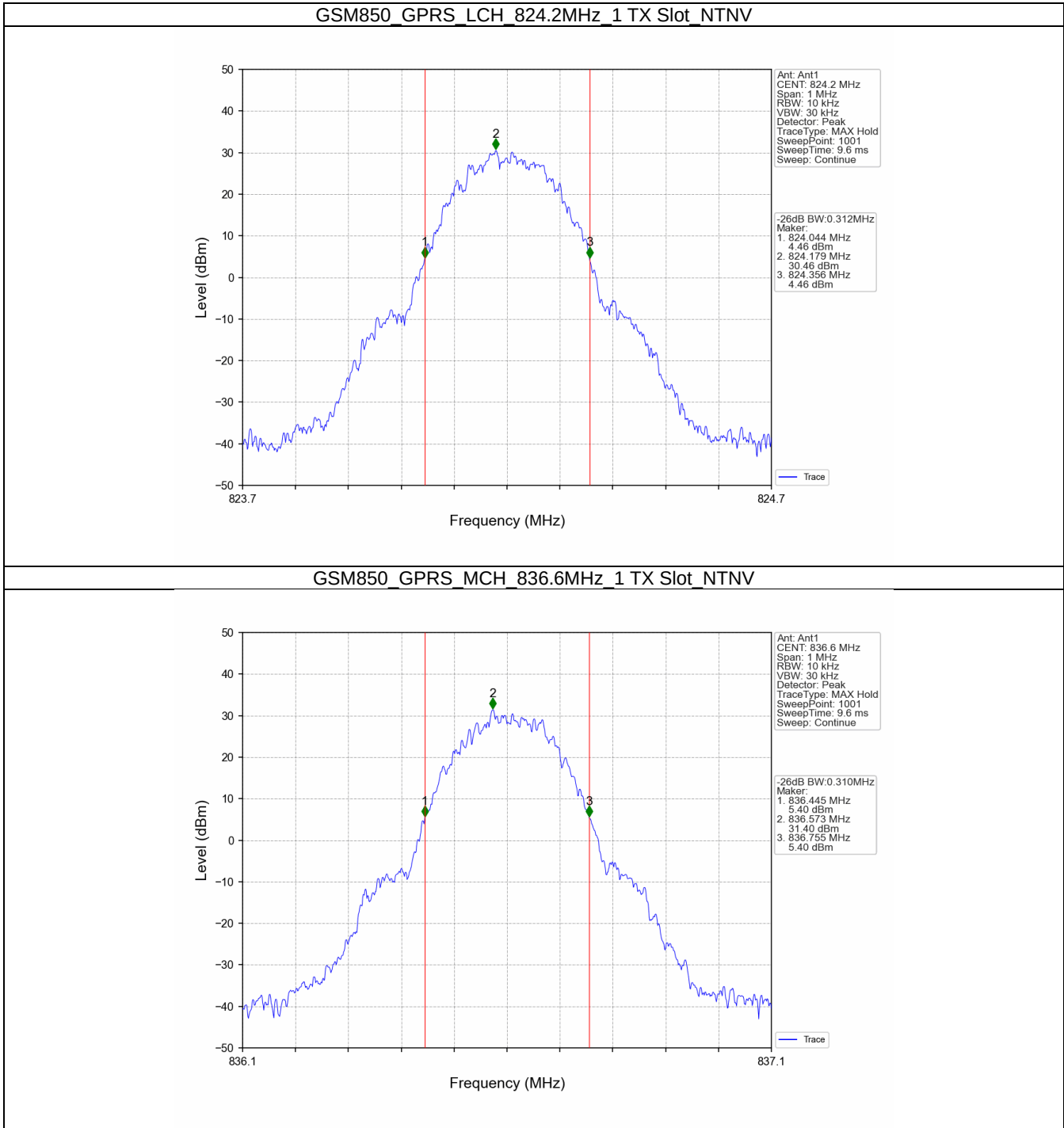


3.2 GSM850_XDB

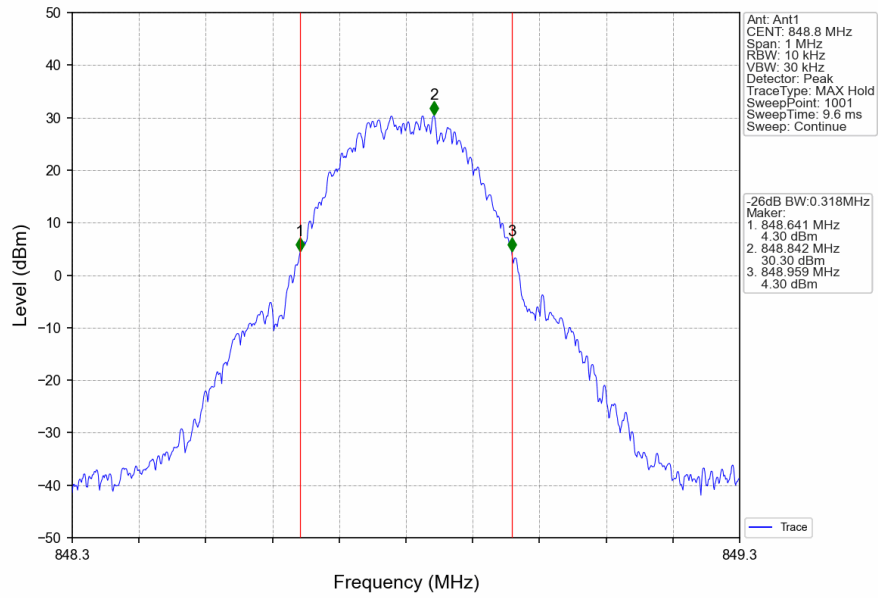
3.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.312	/	Pass
			836.6	0.310	/	Pass
			848.8	0.318	/	Pass
	EGPRS	1 TX Slot	824.2	0.282	/	Pass
			836.6	0.306	/	Pass
			848.8	0.295	/	Pass

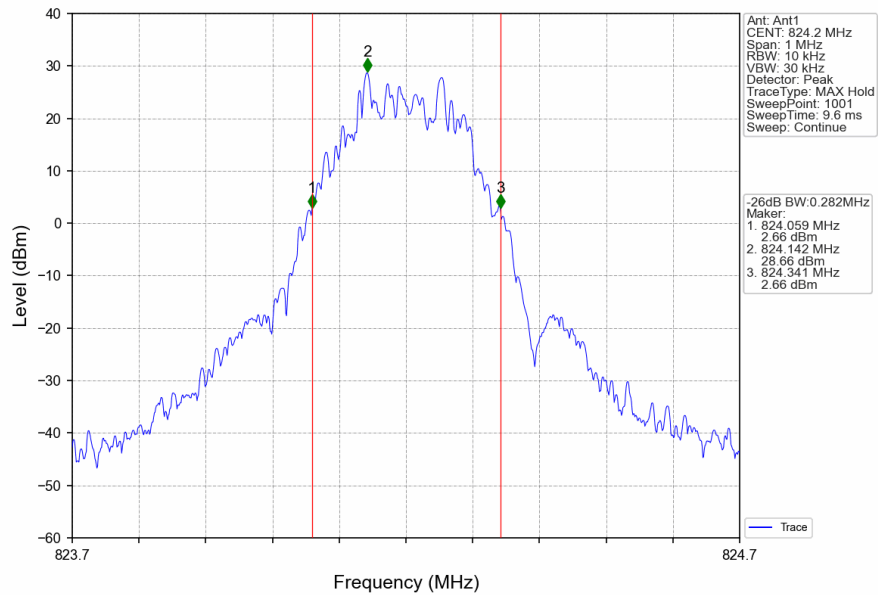
3.2.2 Test Graph



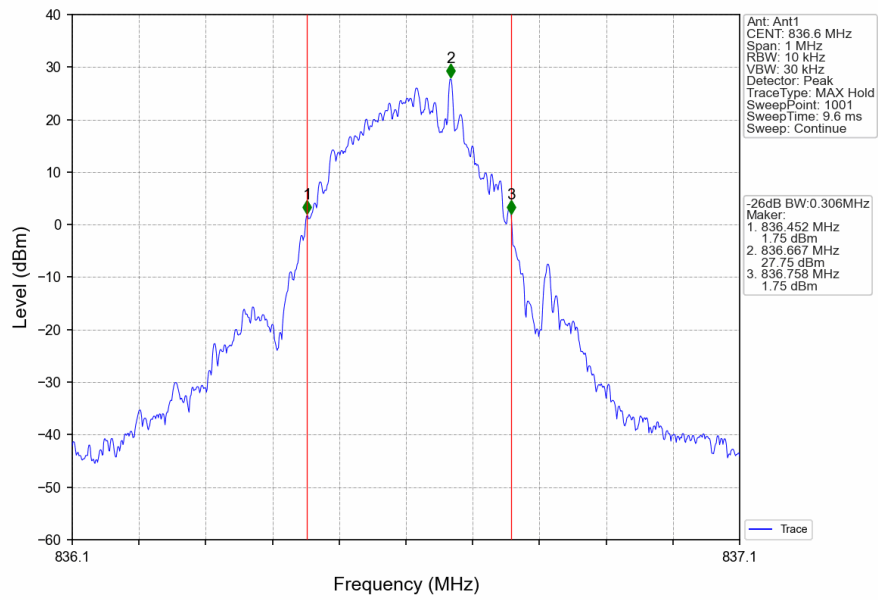
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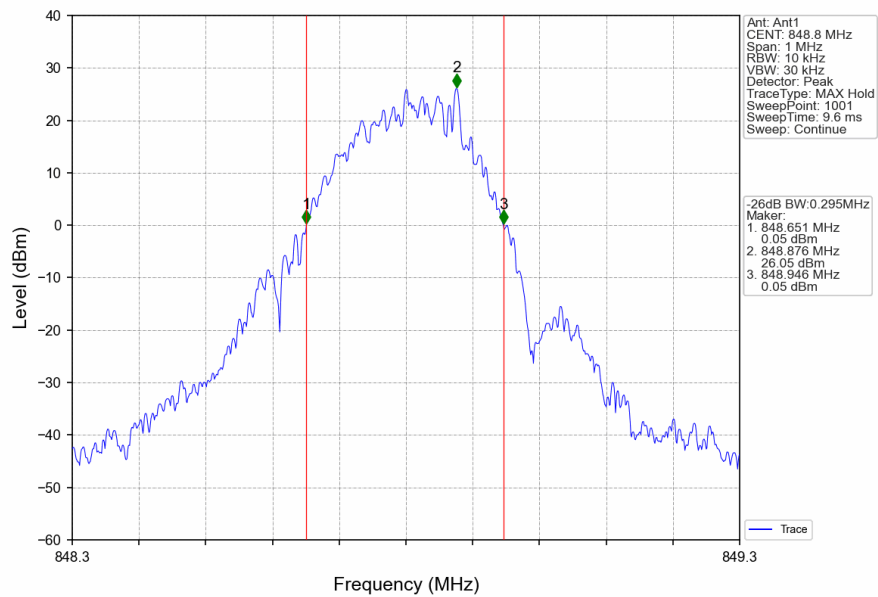
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



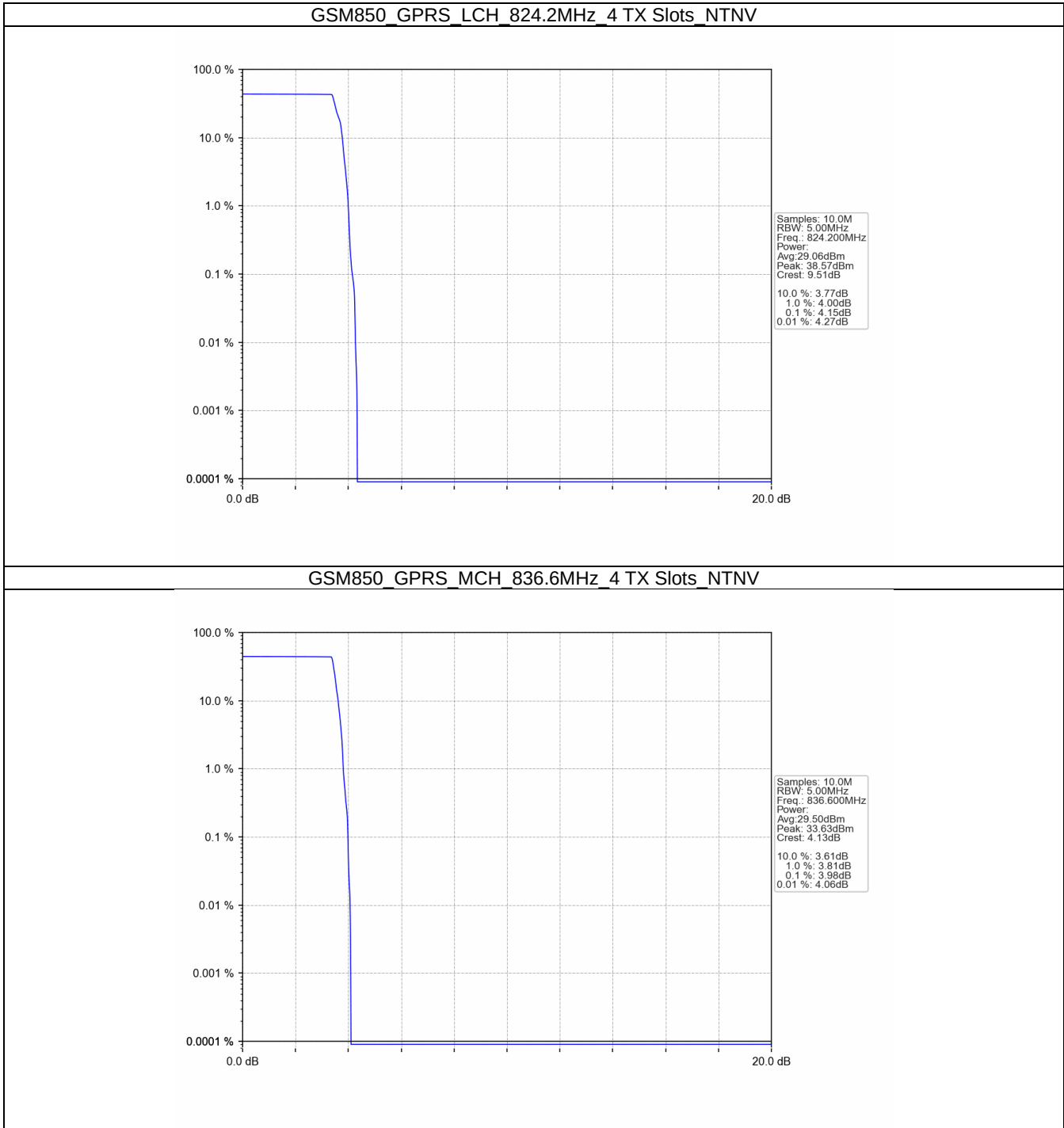
4. Peak-Average Ratio

4.1 GSM850

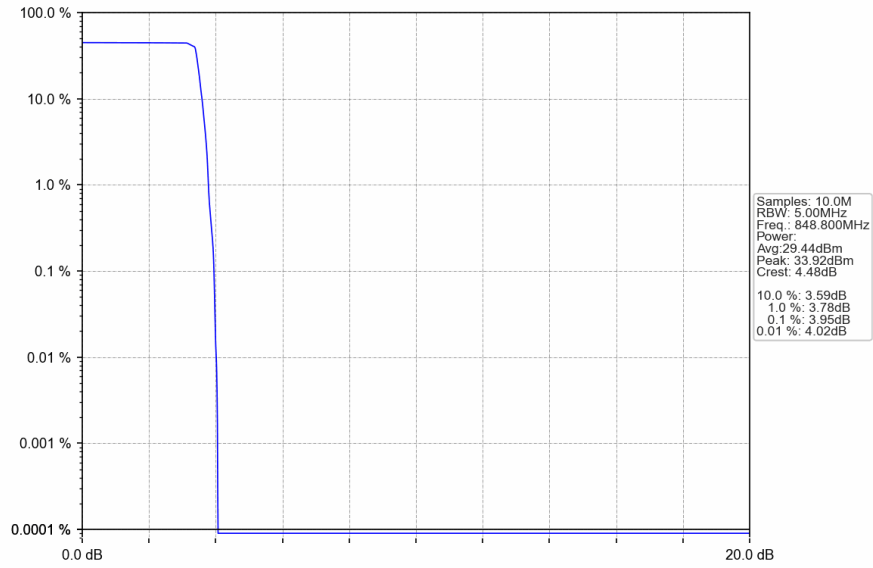
4.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	4.15	<=13	Pass
			836.6	3.98	<=13	Pass
			848.8	3.95	<=13	Pass
	EGPRS	4 TX Slots	824.2	10.25	<=13	Pass
			836.6	10.20	<=13	Pass
			848.8	10.18	<=13	Pass

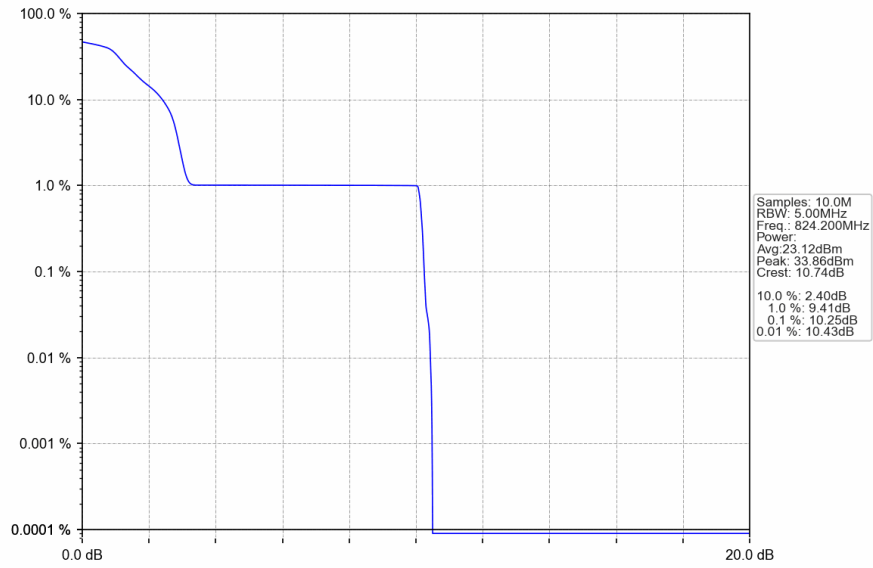
4.1.2 Test Graph



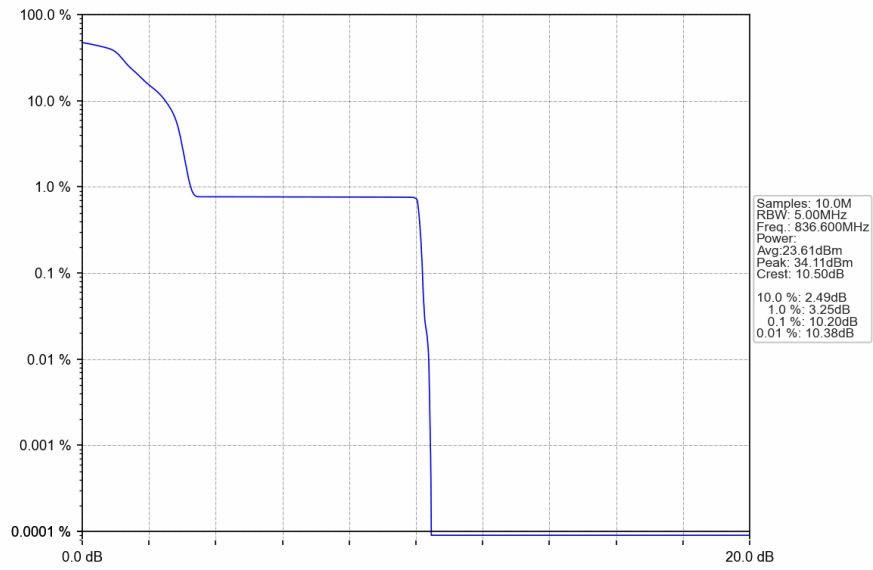
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTN



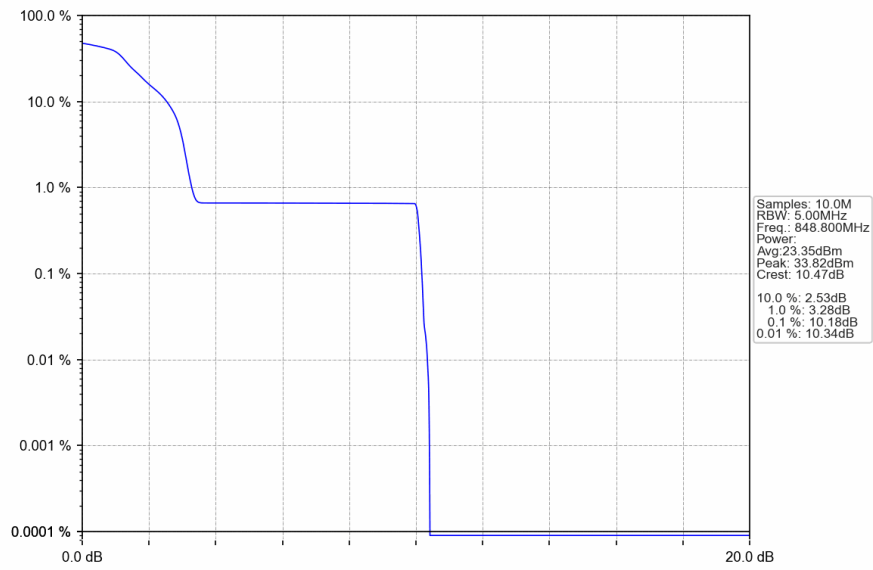
GSM850 EGPRS LCH 824.2MHz 4 TX Slots NTN



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



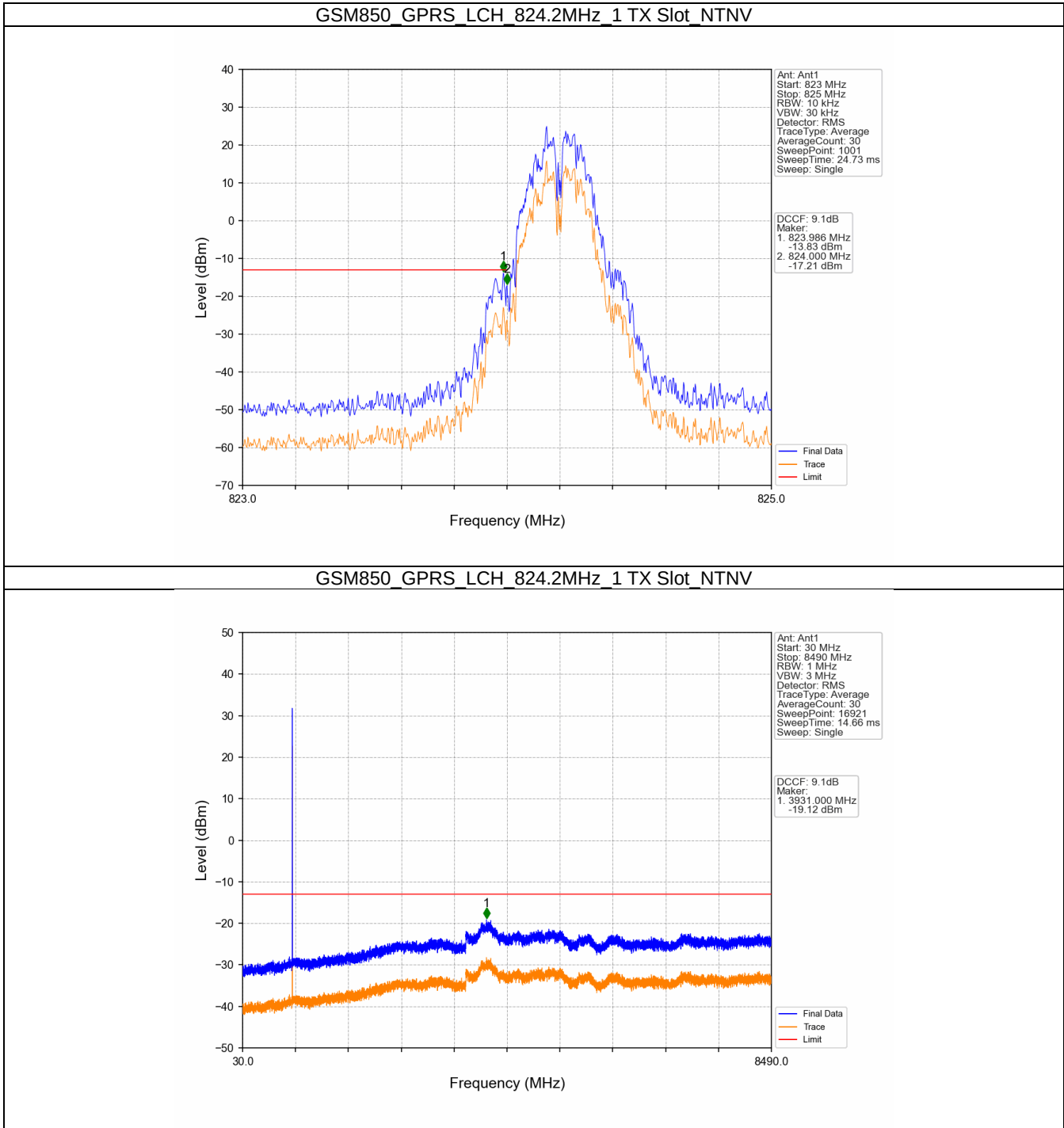
5. Spurious Emission

5.1 GSM850

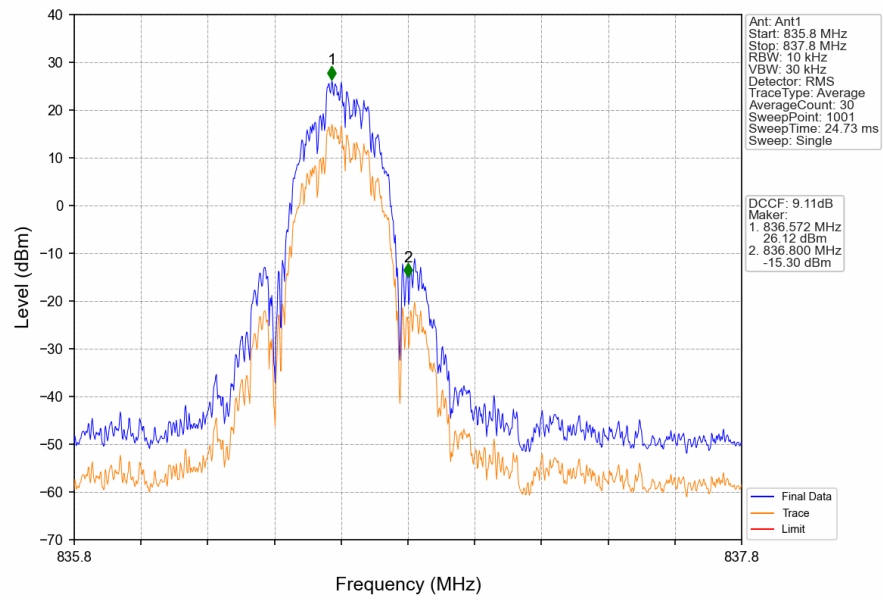
5.1.1 Test Result

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

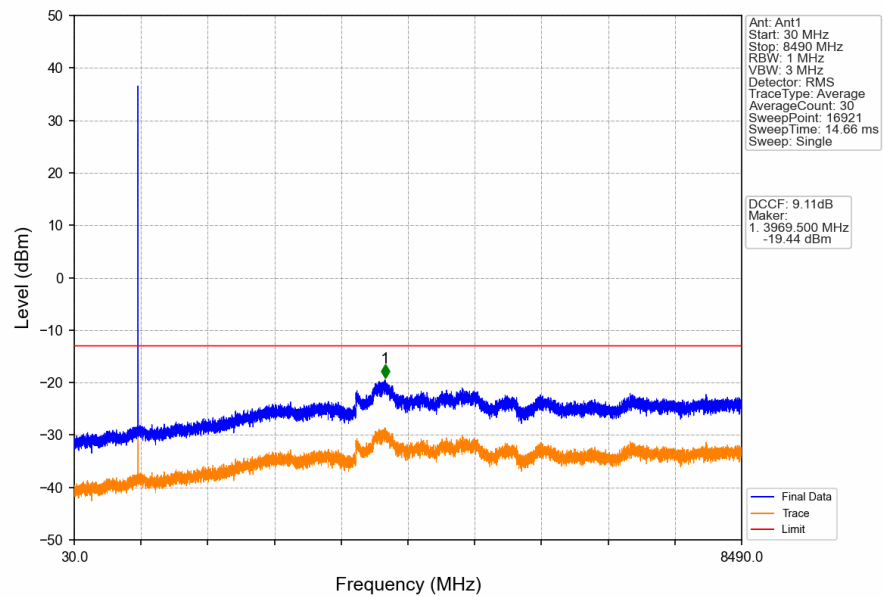
5.1.2 Test Graph



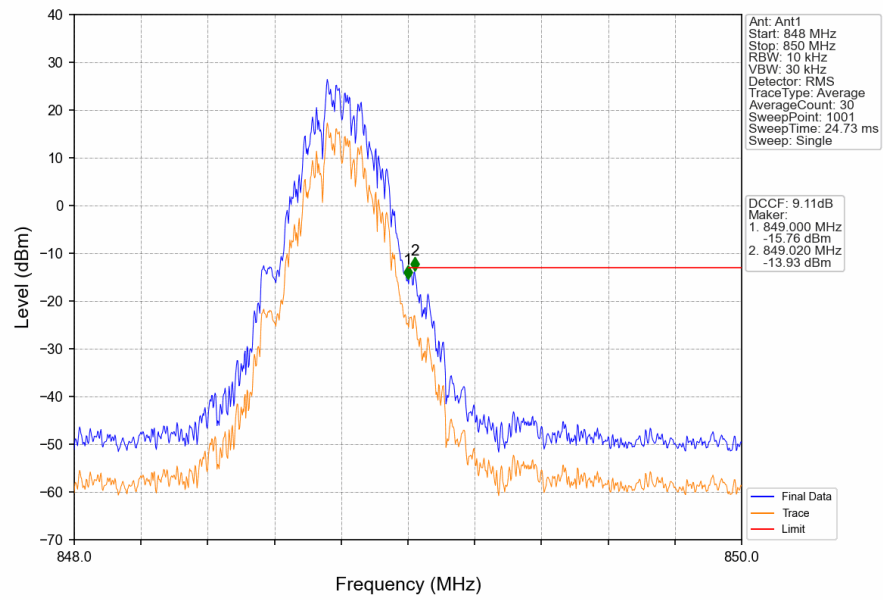
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



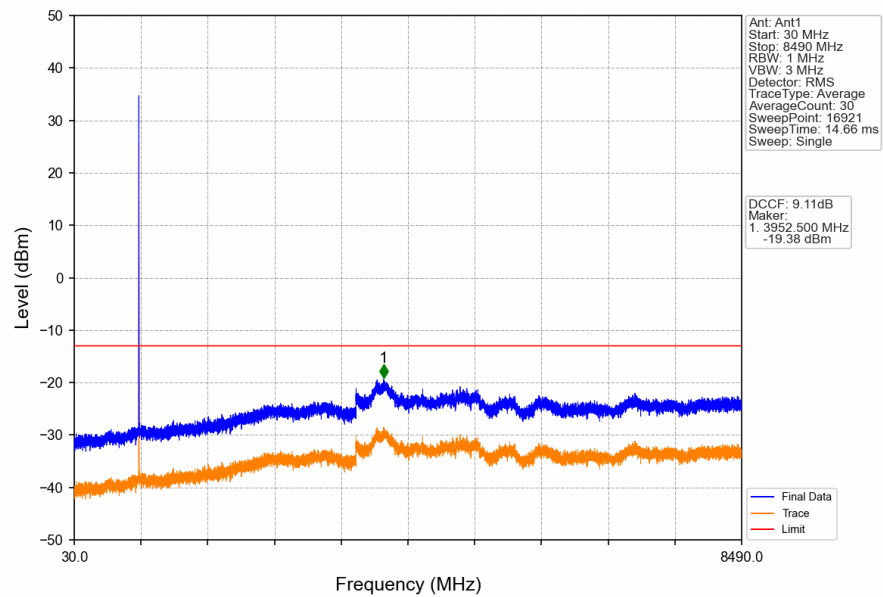
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



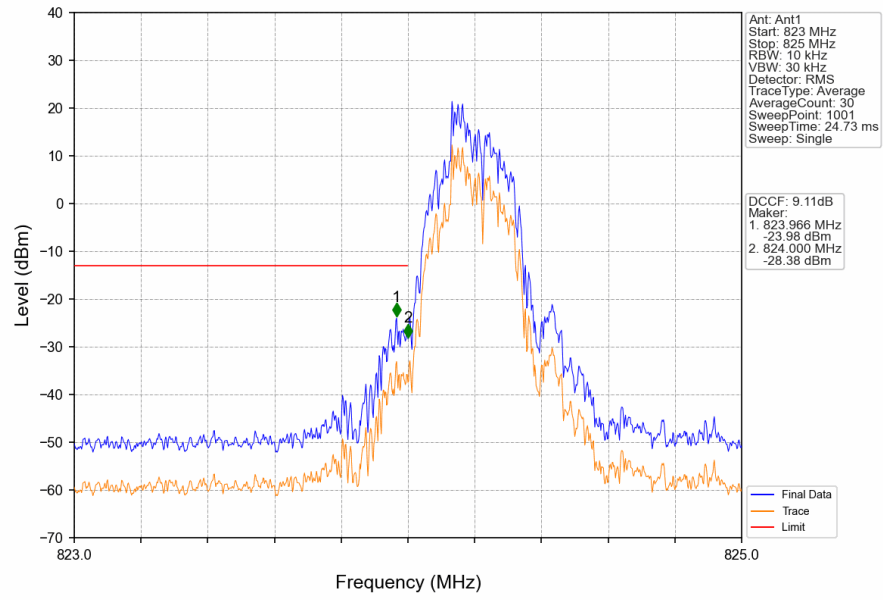
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



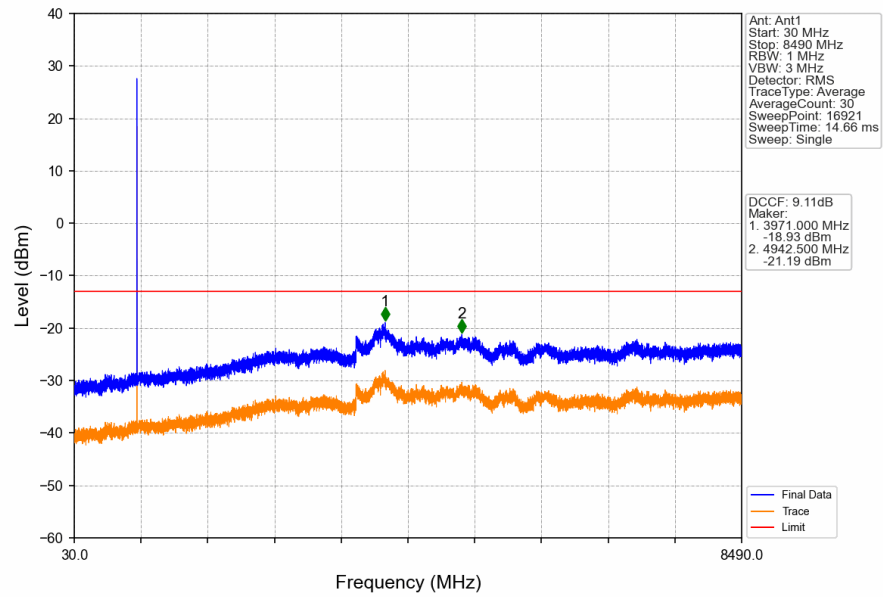
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



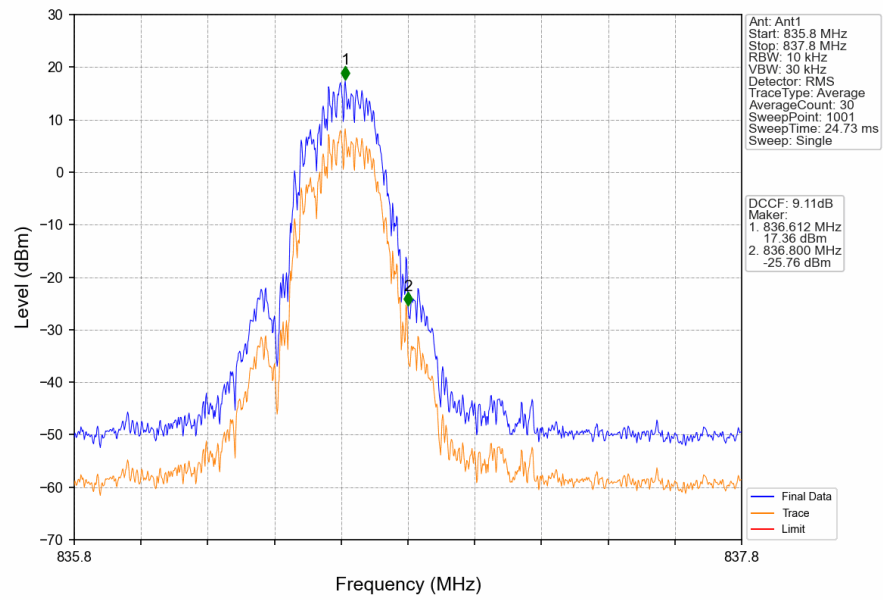
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



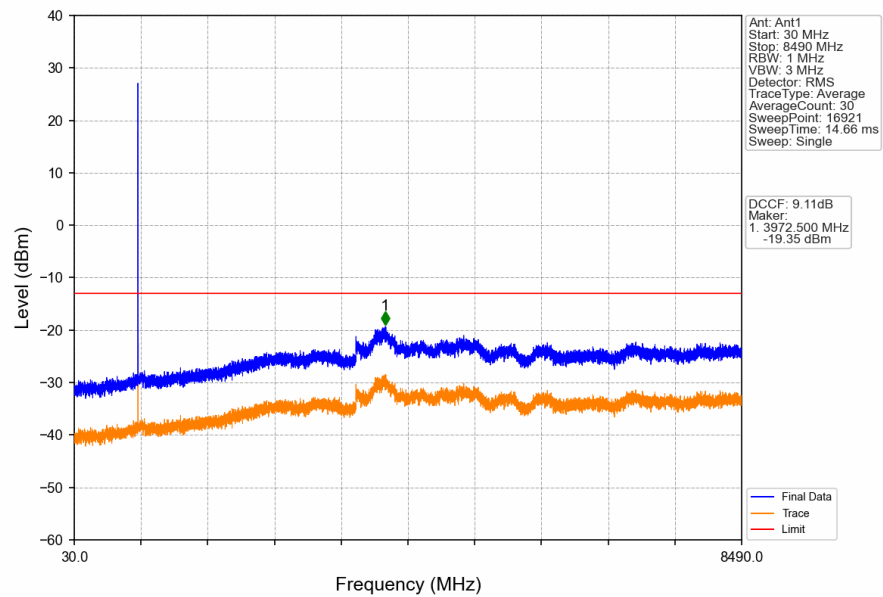
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



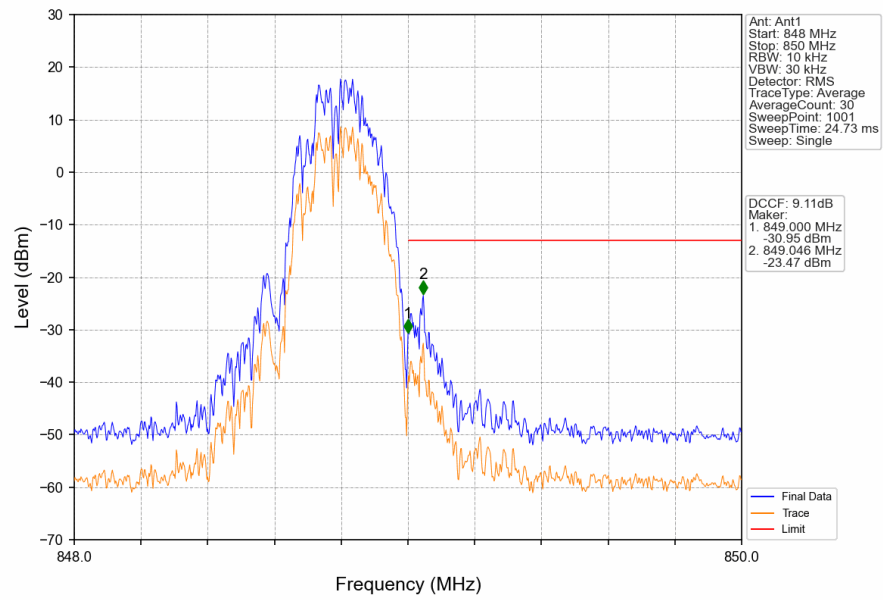
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



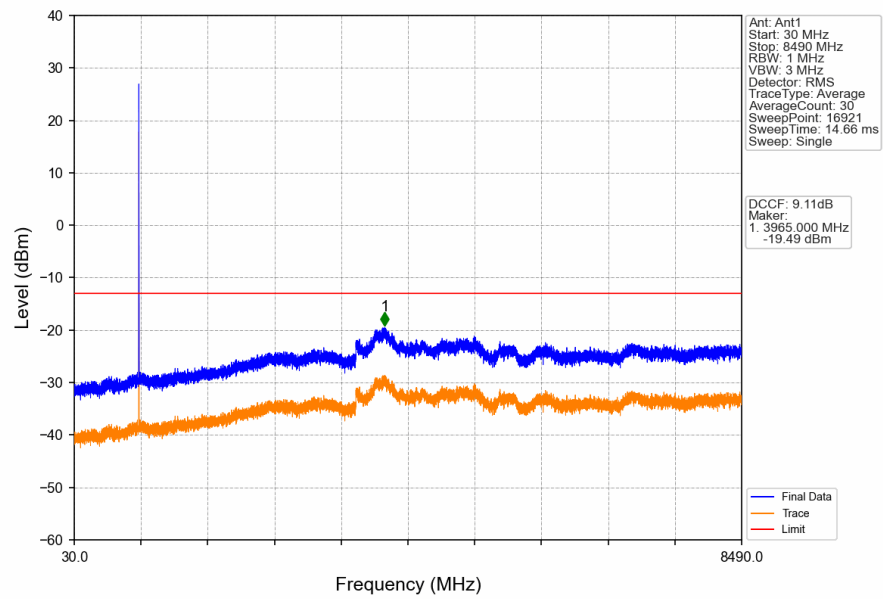
GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



6. Form731

6.1 Form731_Power

6.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	2.2803	0.0336	ppm	244KGXW	22H	33.58
GSM850	0.2	824.2	848.8	0.5297	0.0455	ppm	242KG7W	22H	27.24

6.2 Form731_ERP

6.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
GSM850	0.2	824.2	848.8	1.6106	0.0336	ppm	244KGXW	22H	32.07
GSM850	0.2	824.2	848.8	0.3741	0.0455	ppm	242KG7W	22H	25.73