

1.1.1 GSM850_ERP

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	3.40	4.003	0.0049	-2.5 to 2.5	Pass
			3.60	-5.198	-0.0063	-2.5 to 2.5	Pass
			4.20	-2.421	-0.0029	-2.5 to 2.5	Pass
		-30	3.60	-6.619	-0.0080	-2.5 to 2.5	Pass
		-20	3.60	-1.291	-0.0016	-2.5 to 2.5	Pass
		-10	3.60	-0.194	-0.0002	-2.5 to 2.5	Pass
		0	3.60	-4.036	-0.0049	-2.5 to 2.5	Pass
		10	3.60	-5.263	-0.0064	-2.5 to 2.5	Pass
		30	3.60	-3.422	-0.0042	-2.5 to 2.5	Pass
		40	3.60	-5.650	-0.0069	-2.5 to 2.5	Pass
		50	3.60	-6.877	-0.0083	-2.5 to 2.5	Pass
	836.6	20	3.40	1.969	0.0024	-2.5 to 2.5	Pass
			3.60	-2.841	-0.0034	-2.5 to 2.5	Pass
			4.20	-0.807	-0.0010	-2.5 to 2.5	Pass
		-30	3.60	-3.810	-0.0046	-2.5 to 2.5	Pass
		-20	3.60	-5.941	-0.0071	-2.5 to 2.5	Pass
		-10	3.60	-2.163	-0.0026	-2.5 to 2.5	Pass
		0	3.60	-3.325	-0.0040	-2.5 to 2.5	Pass
		10	3.60	-3.325	-0.0040	-2.5 to 2.5	Pass
		30	3.60	-7.135	-0.0085	-2.5 to 2.5	Pass
		40	3.60	-4.907	-0.0059	-2.5 to 2.5	Pass
		50	3.60	-6.457	-0.0077	-2.5 to 2.5	Pass
	848.8	20	3.40	-0.484	-0.0006	-2.5 to 2.5	Pass
			3.60	-2.938	-0.0035	-2.5 to 2.5	Pass
			4.20	-1.679	-0.0020	-2.5 to 2.5	Pass
		-30	3.60	1.614	0.0019	-2.5 to 2.5	Pass
		-20	3.60	-0.291	-0.0003	-2.5 to 2.5	Pass
		-10	3.60	-2.841	-0.0033	-2.5 to 2.5	Pass
		0	3.60	-6.586	-0.0078	-2.5 to 2.5	Pass
		10	3.60	-4.649	-0.0055	-2.5 to 2.5	Pass
		30	3.60	-5.327	-0.0063	-2.5 to 2.5	Pass
		40	3.60	-2.389	-0.0028	-2.5 to 2.5	Pass
		50	3.60	-4.262	-0.0050	-2.5 to 2.5	Pass
EGPRS	824.2	20	3.40	-19.372	-0.0235	-2.5 to 2.5	Pass
			3.60	-15.239	-0.0185	-2.5 to 2.5	Pass
			4.20	-20.372	-0.0247	-2.5 to 2.5	Pass
		-30	3.60	-14.044	-0.0170	-2.5 to 2.5	Pass
		-20	3.60	-14.044	-0.0170	-2.5 to 2.5	Pass
		-10	3.60	-18.274	-0.0222	-2.5 to 2.5	Pass
		0	3.60	-17.370	-0.0211	-2.5 to 2.5	Pass
		10	3.60	-22.729	-0.0276	-2.5 to 2.5	Pass
		30	3.60	-22.277	-0.0270	-2.5 to 2.5	Pass
		40	3.60	-21.922	-0.0266	-2.5 to 2.5	Pass
		50	3.60	-17.531	-0.0213	-2.5 to 2.5	Pass
	836.6	20	3.40	-6.070	-0.0073	-2.5 to 2.5	Pass
			3.60	-4.455	-0.0053	-2.5 to 2.5	Pass
			4.20	-2.486	-0.0030	-2.5 to 2.5	Pass
		-30	3.60	-3.099	-0.0037	-2.5 to 2.5	Pass
		-20	3.60	-5.230	-0.0063	-2.5 to 2.5	Pass

		-10	3.60	-0.032	0.0000	-2.5 to 2.5	Pass
		0	3.60	-4.552	-0.0054	-2.5 to 2.5	Pass
		10	3.60	-4.585	-0.0055	-2.5 to 2.5	Pass
		30	3.60	-7.071	-0.0085	-2.5 to 2.5	Pass
		40	3.60	-2.066	-0.0025	-2.5 to 2.5	Pass
		50	3.60	-2.938	-0.0035	-2.5 to 2.5	Pass
	848.8	20	3.40	-5.876	-0.0069	-2.5 to 2.5	Pass
			3.60	-2.389	-0.0028	-2.5 to 2.5	Pass
			4.20	-3.067	-0.0036	-2.5 to 2.5	Pass
		-30	3.60	-5.941	-0.0070	-2.5 to 2.5	Pass
		-20	3.60	-4.455	-0.0052	-2.5 to 2.5	Pass
		-10	3.60	-5.489	-0.0065	-2.5 to 2.5	Pass
		0	3.60	-6.683	-0.0079	-2.5 to 2.5	Pass
		10	3.60	-5.876	-0.0069	-2.5 to 2.5	Pass
		30	3.60	-10.041	-0.0118	-2.5 to 2.5	Pass
		40	3.60	-2.389	-0.0028	-2.5 to 2.5	Pass
		50	3.60	1.679	0.0020	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

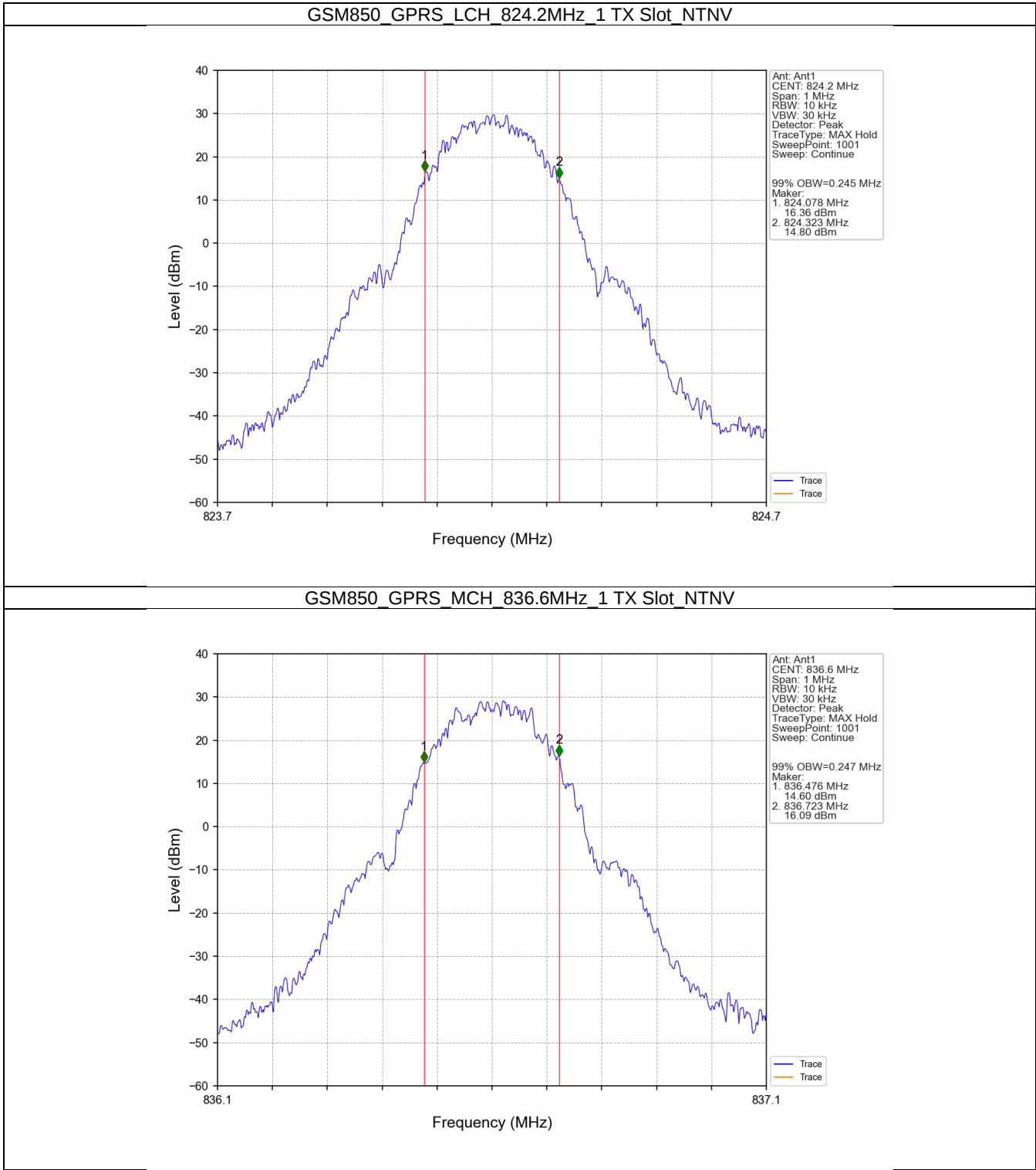
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.247	/	Pass
			848.8	0.246	/	Pass
	EGPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.256	/	Pass
			848.8	0.254	/	Pass

3.1.2 GSM850_XDB

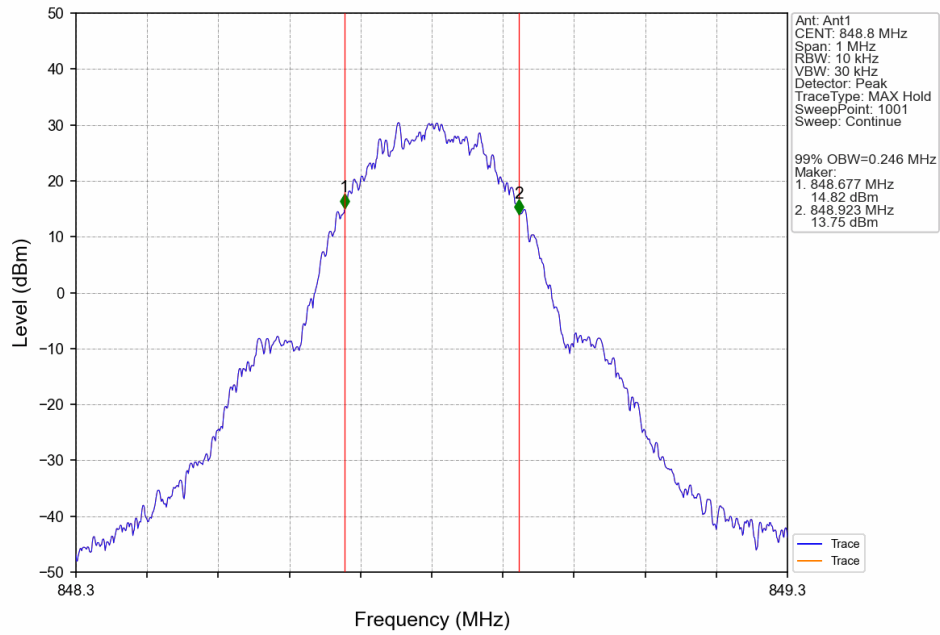
Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	824.2	0.317	/	Pass
			836.6	0.326	/	Pass
			848.8	0.315	/	Pass
	EGPRS	1 TX Slot	824.2	0.310	/	Pass
			836.6	0.332	/	Pass
			848.8	0.325	/	Pass

3.2 Test Graph

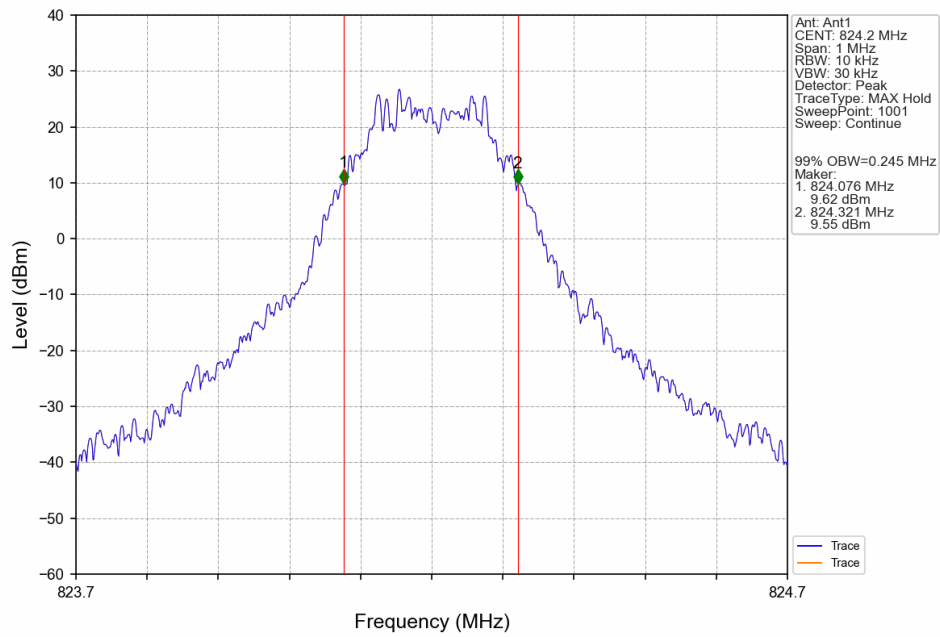
3.2.1 GSM850_OBW



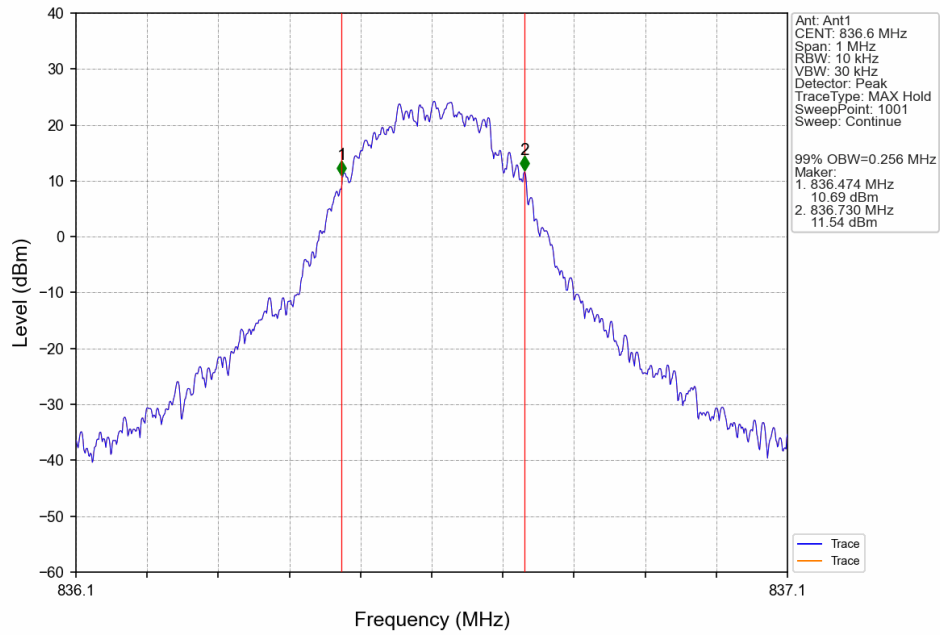
GSM850 GPRS HCH 848.8MHz 1 TX Slot NTNV



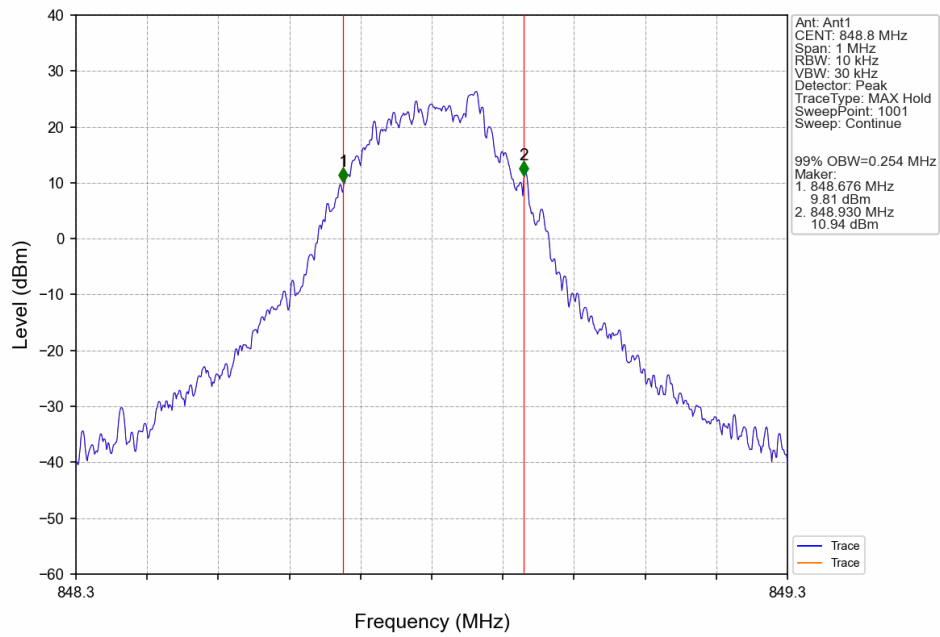
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



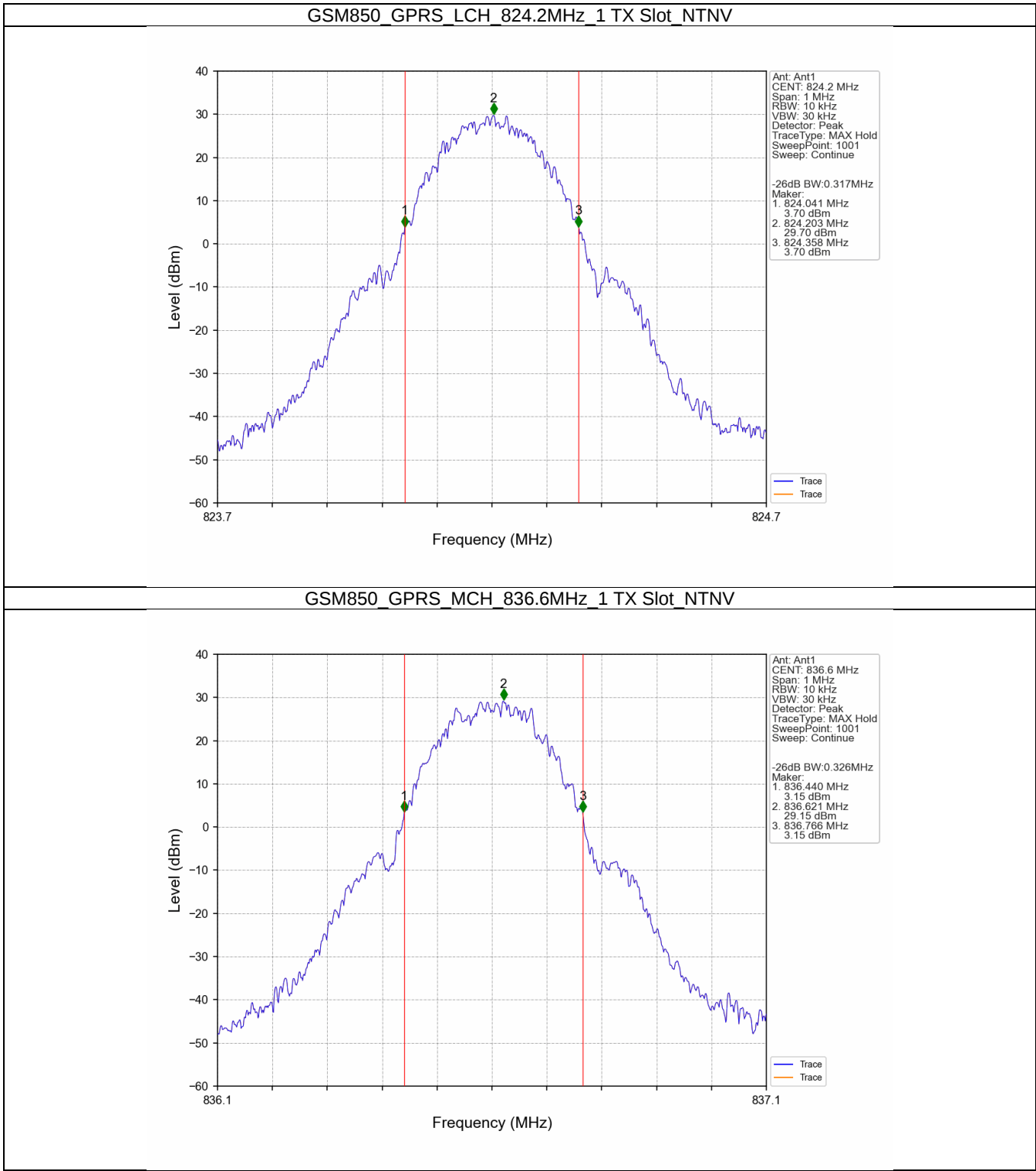
GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



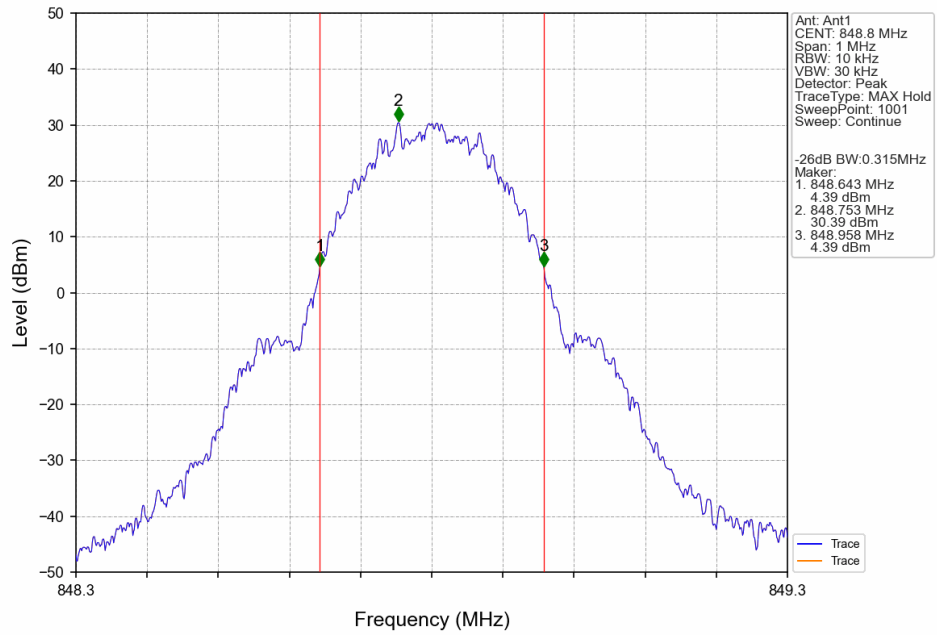
GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



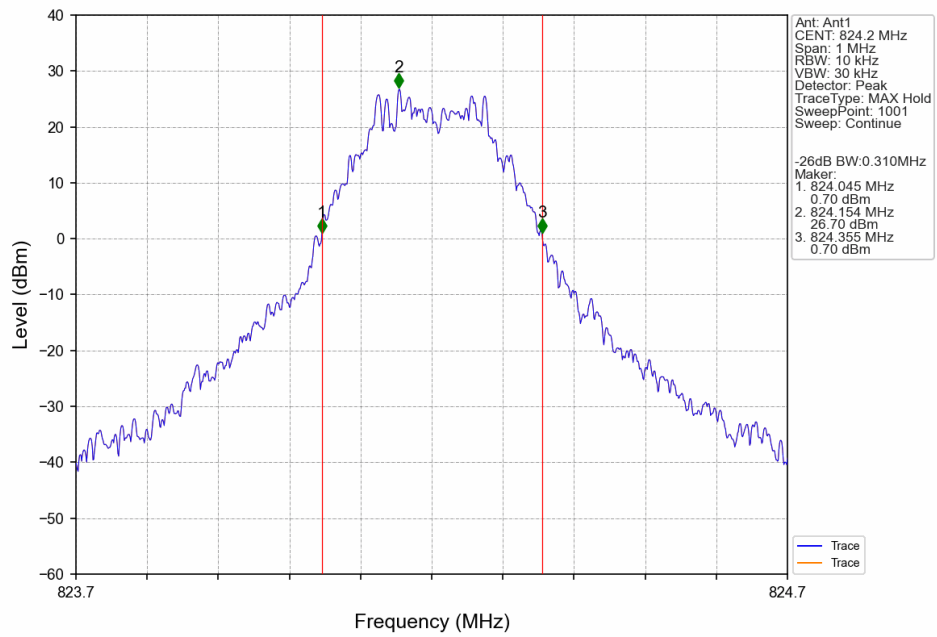
3.2.2 GSM850_XDB



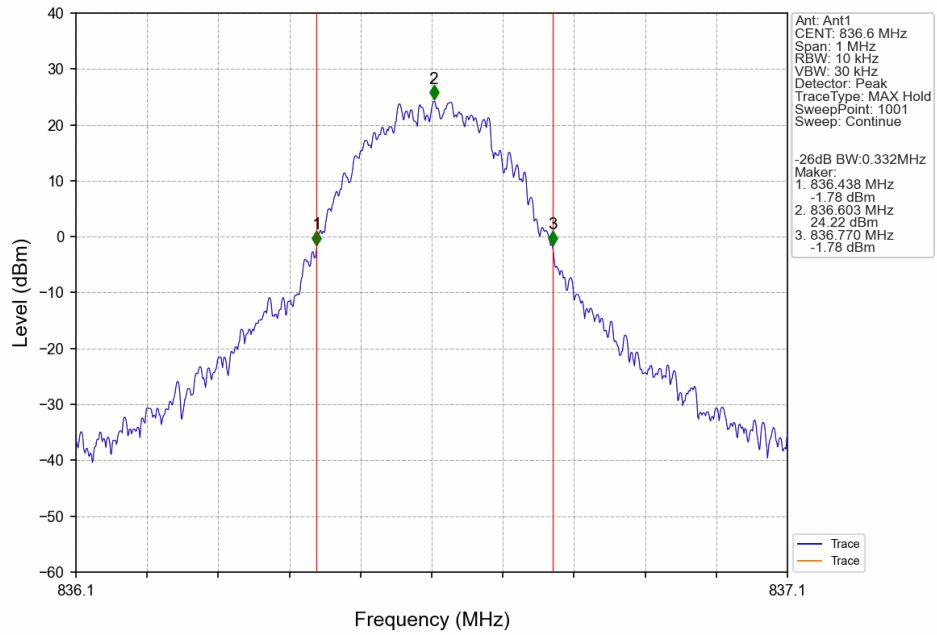
GSM850 GPRS HCH 848.8MHz 1 TX Slot NTNV



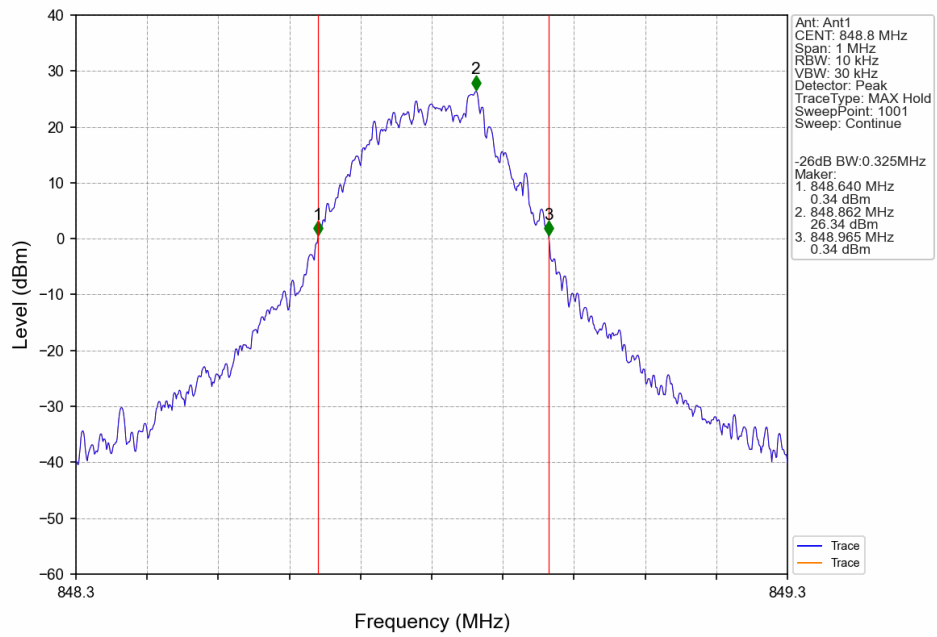
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

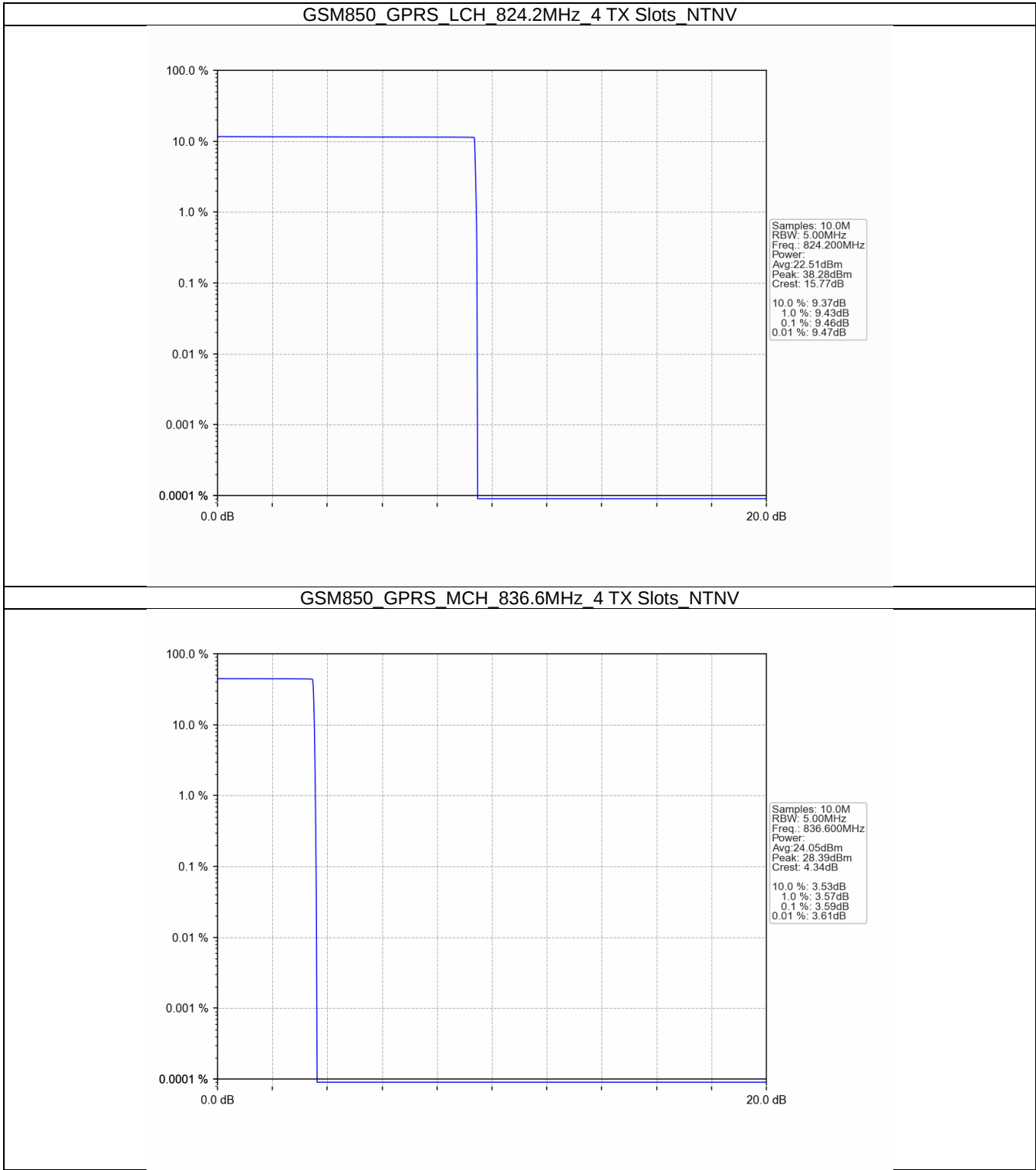
4.1 Test Result

4.1.1 GSM850

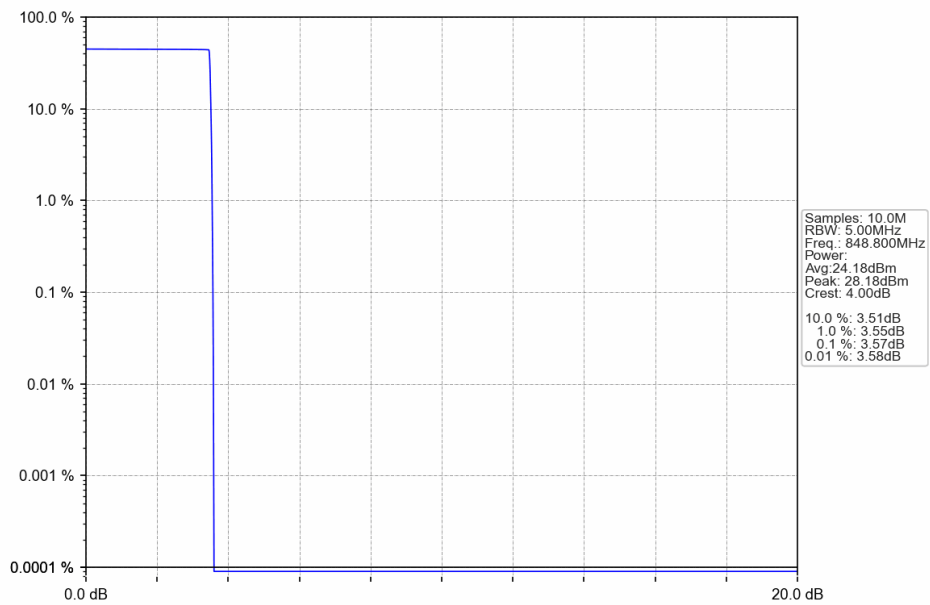
Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	824.2	9.46	<=13	Pass
			836.6	3.59	<=13	Pass
			848.8	3.57	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.97	<=13	Pass
			836.6	9.06	<=13	Pass
			848.8	9.15	<=13	Pass

4.2 Test Graph

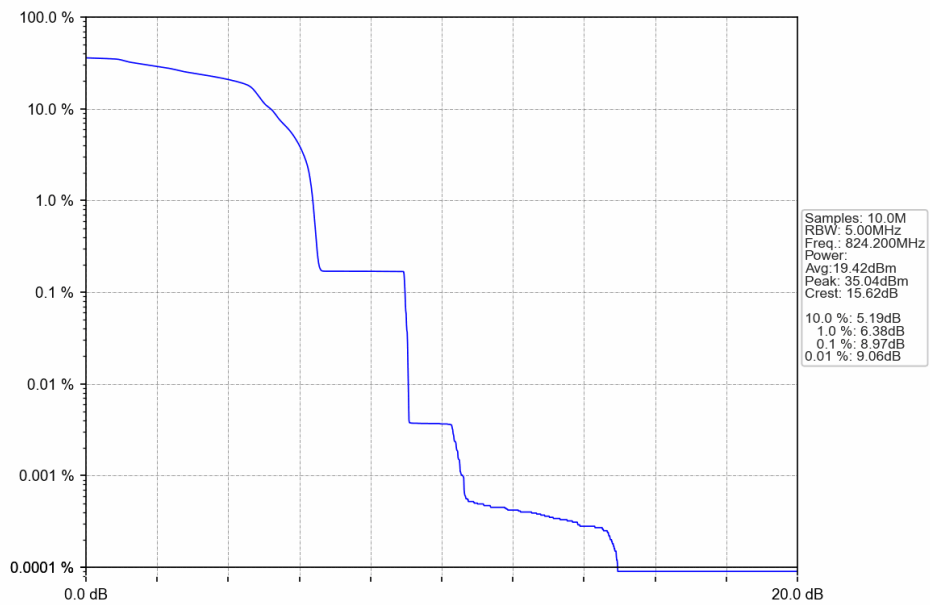
4.2.1 GSM850



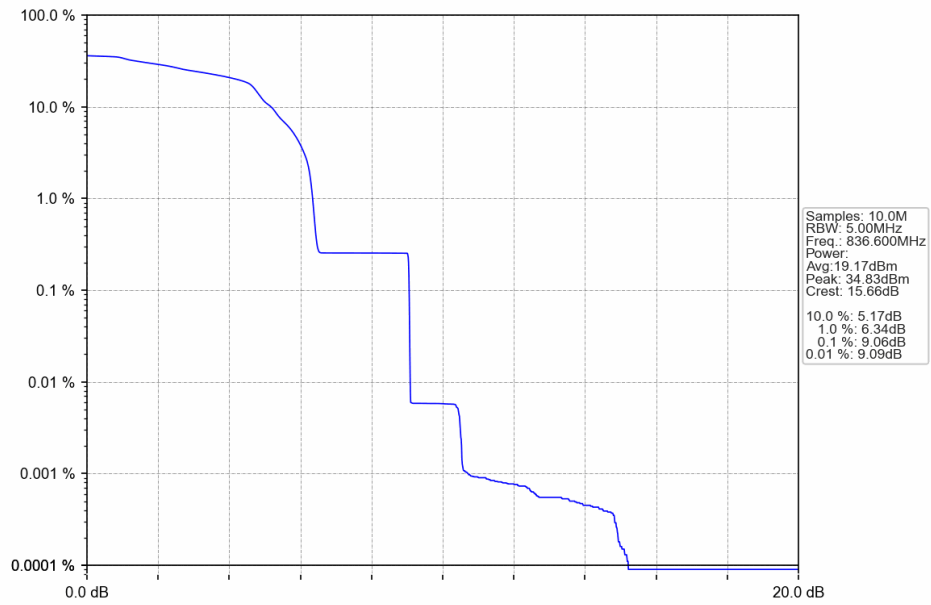
GSM850 GPRS HCH 848.8MHz 4 TX Slots NTNV



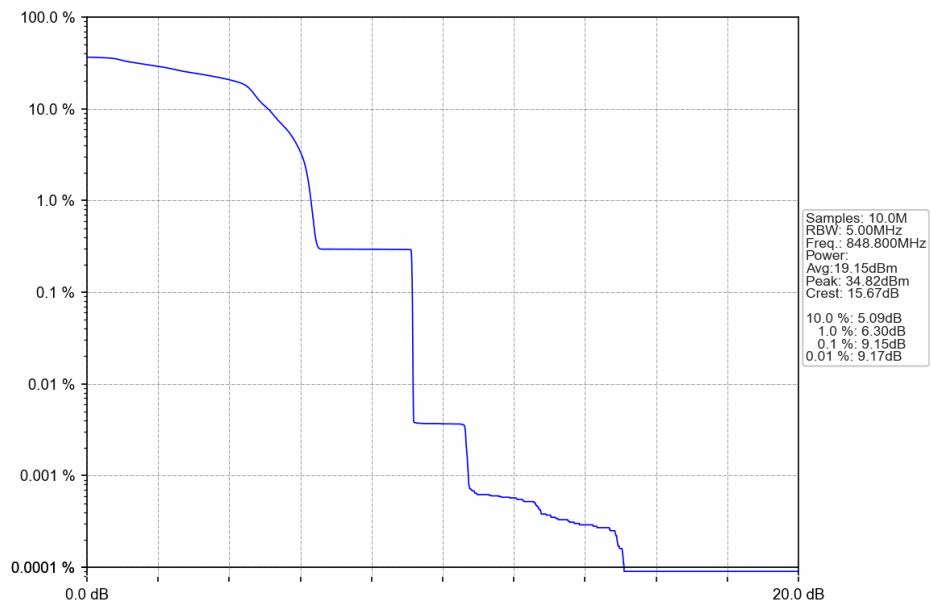
GSM850 EGPRS LCH 824.2MHz 4 TX Slots NTNV



GSM850 EGPRS MCH 836.6MHz 4 TX Slots NTNV



GSM850 EGPRS HCH 848.8MHz 4 TX Slots NTNV



5. Spurious Emission

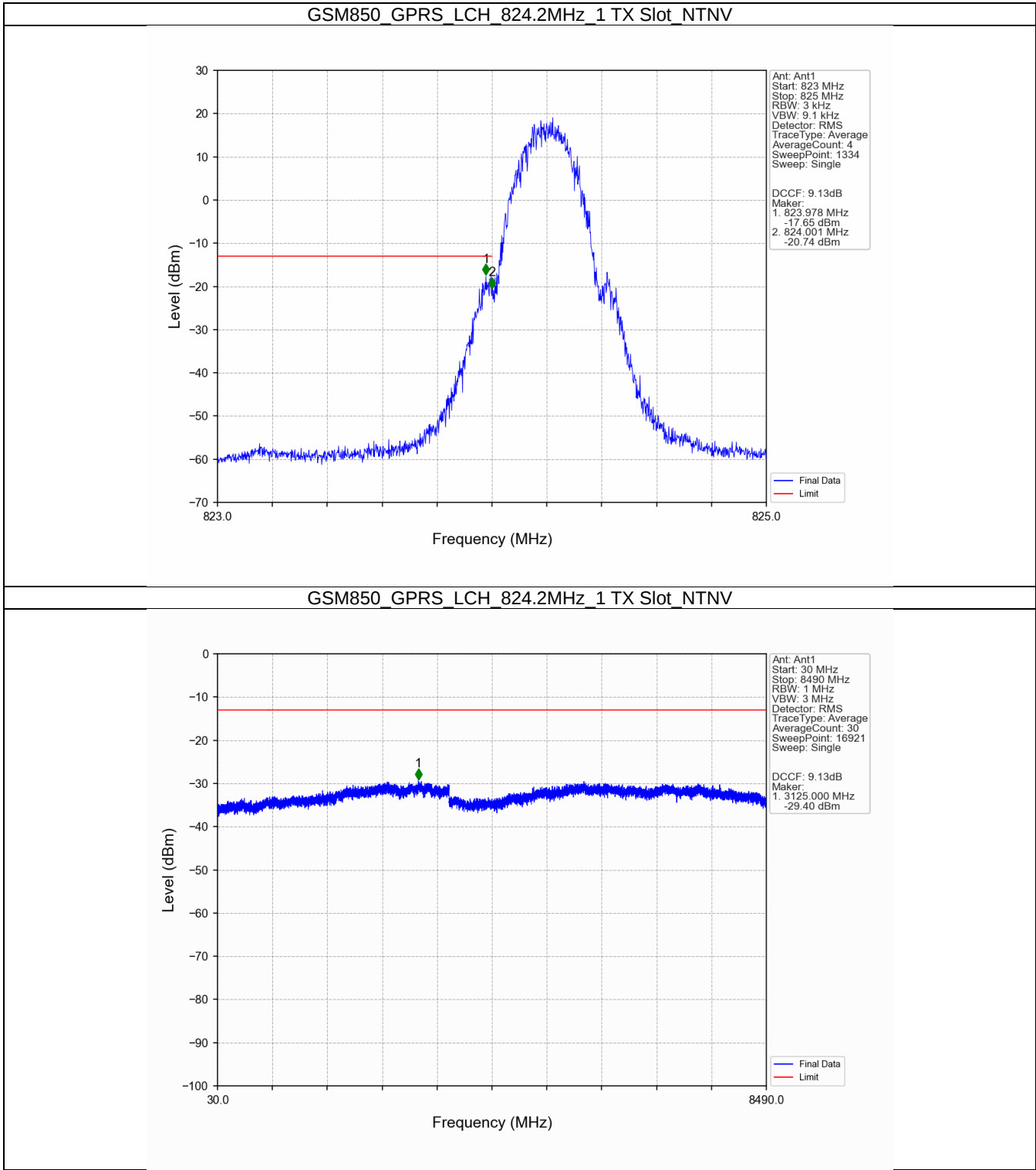
5.1 Test Result

5.1.1 GSM850

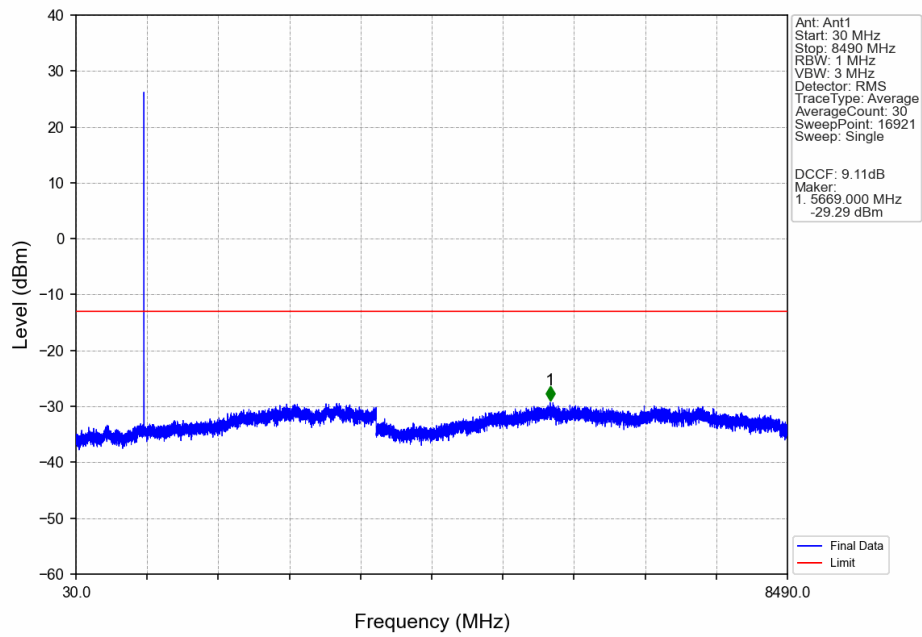
Band: GSM850					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	824.2	Refer To Test Graph	Pass
			836.6	Refer To Test Graph	Pass
			848.8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

5.2 Test Graph

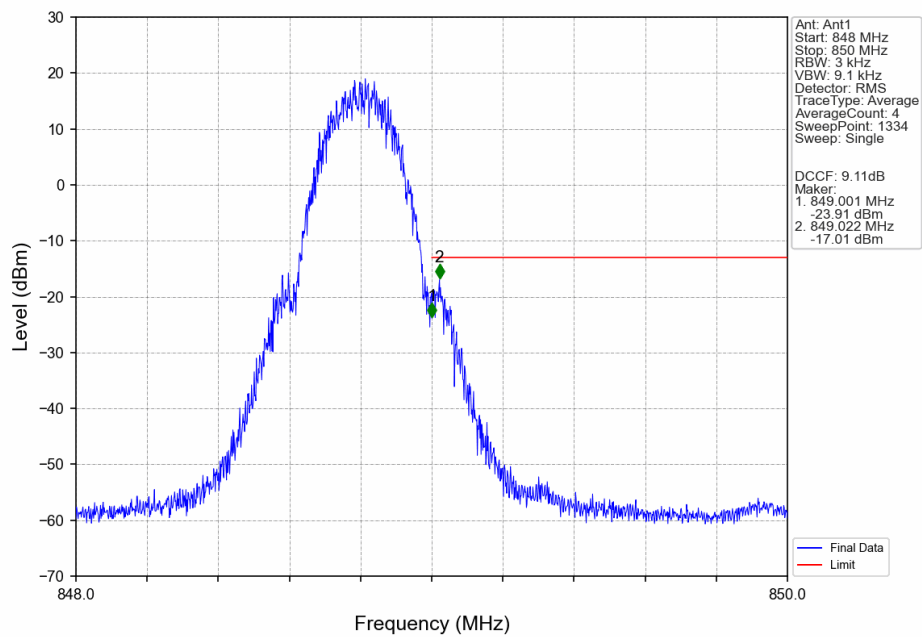
5.2.1 GSM850



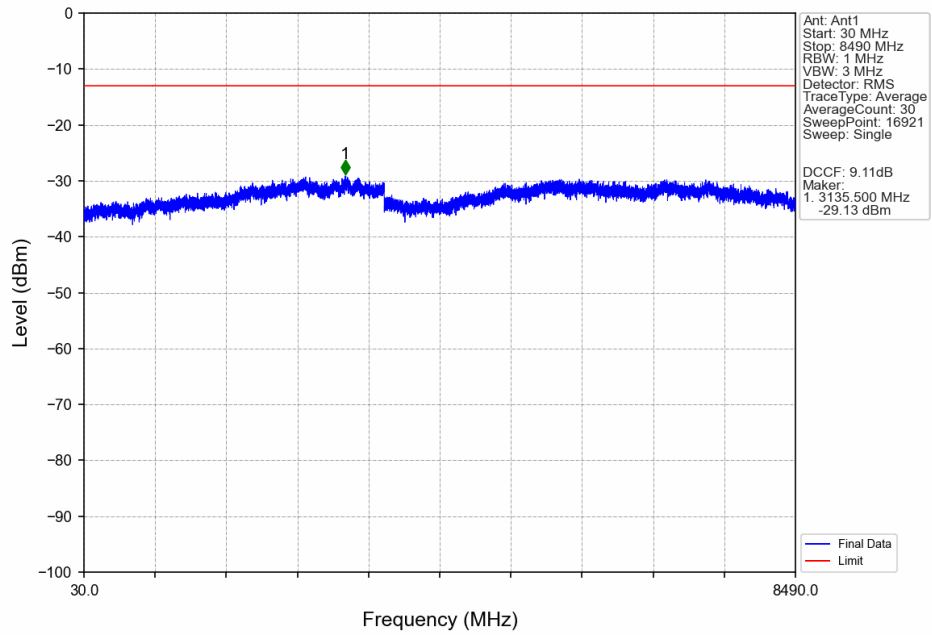
GSM850 GPRS MCH 836.6MHz 1 TX Slot NTN



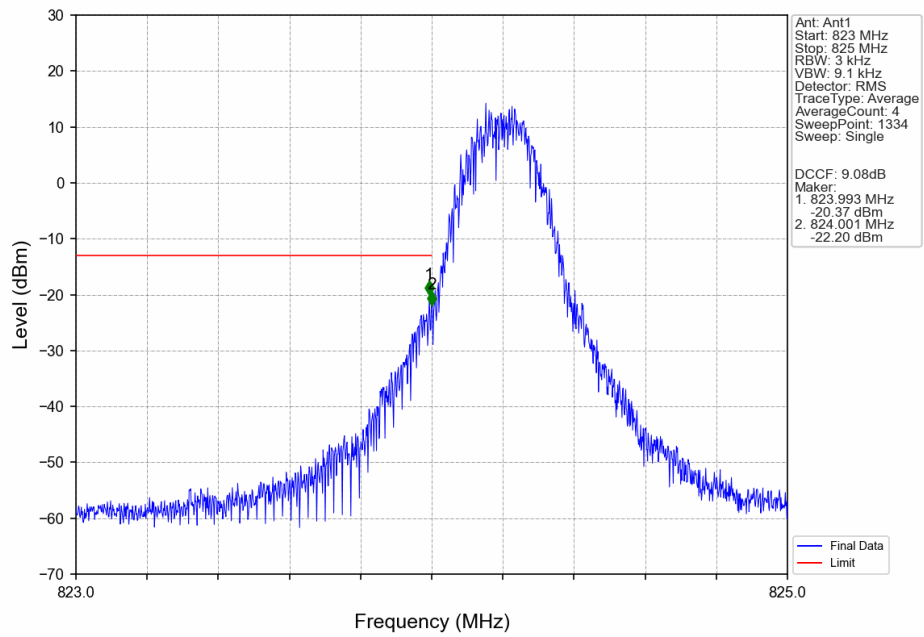
GSM850 GPRS HCH 848.8MHz 1 TX Slot NTN



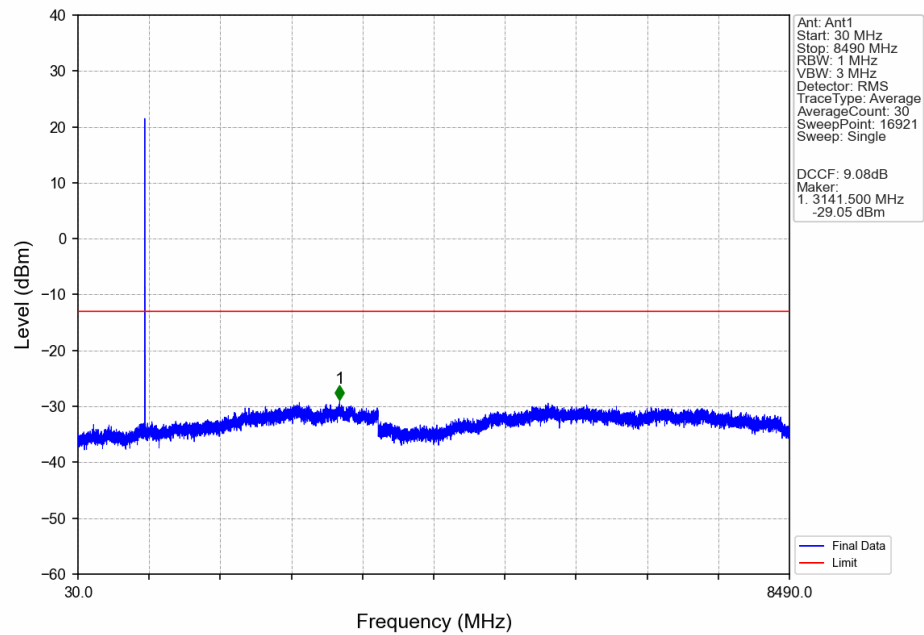
GSM850 GPRS HCH 848.8MHz 1 TX Slot NTNV



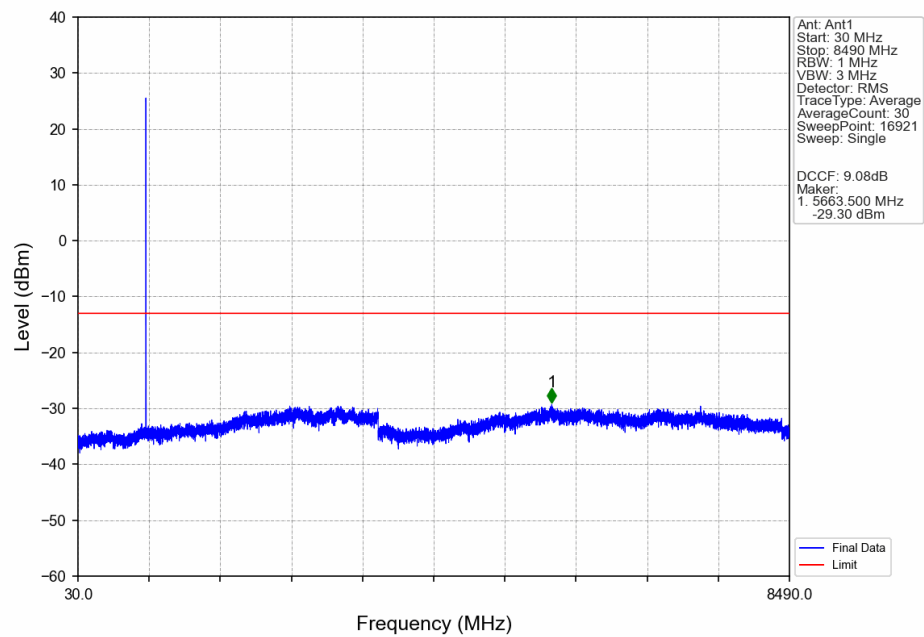
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



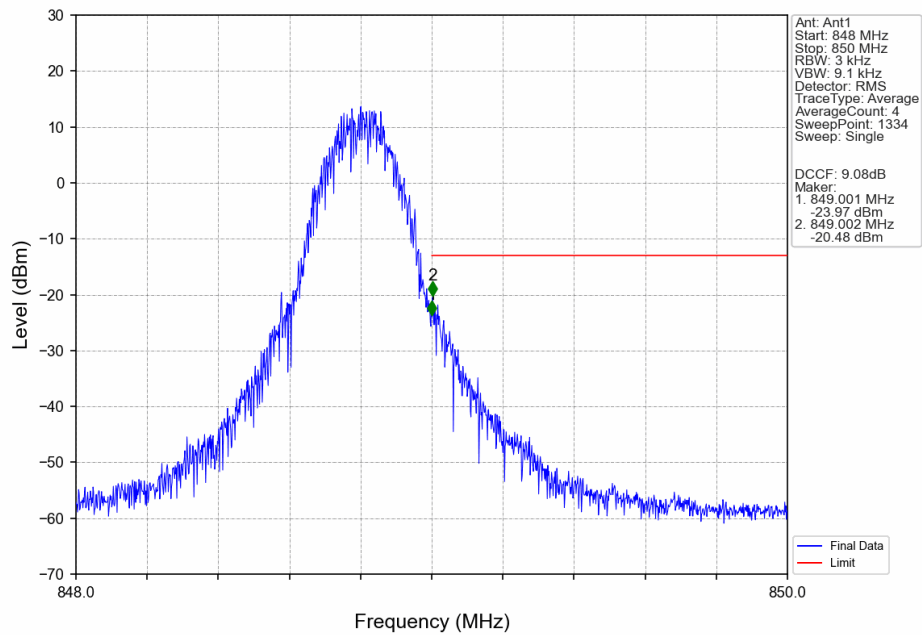
GSM850 EGPRS LCH 824.2MHz 1 TX Slot NTNV



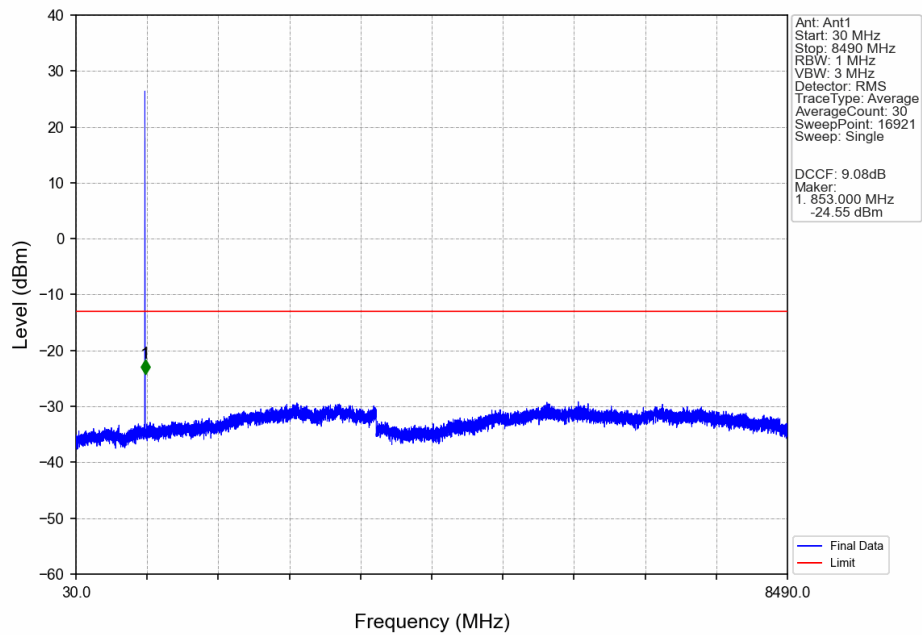
GSM850 EGPRS MCH 836.6MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



GSM850 EGPRS HCH 848.8MHz 1 TX Slot NTNV



-The End-