



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.1

GSM 850



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Shenzhen Branch, Dimensionless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result_Ant4

Band: GSM850											
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict			
	Network	Subset				Result	Limit				
NTNV	GSM	GSM	824.2	32.73	-5.1	25.48	<=38.45	Pass			
			836.6	32.74	-5.1	25.49	<=38.45	Pass			
			848.8	32.70	-5.1	25.45	<=38.45	Pass			
	GPRS	1 TX Slot	824.2	32.70	-5.1	25.45	<=38.45	Pass			
			2 TX Slots	824.2	30.37	-5.1	23.12	<=38.45	Pass		
			3 TX Slots	824.2	28.50	-5.1	21.25	<=38.45	Pass		
			4 TX Slots	824.2	27.50	-5.1	20.25	<=38.45	Pass		
			1 TX Slot	836.6	32.72	-5.1	25.47	<=38.45	Pass		
			2 TX Slots	836.6	30.41	-5.1	23.16	<=38.45	Pass		
			3 TX Slots	836.6	28.53	-5.1	21.28	<=38.45	Pass		
			4 TX Slots	836.6	27.53	-5.1	20.28	<=38.45	Pass		
			1 TX Slot	848.8	32.69	-5.1	25.44	<=38.45	Pass		
			2 TX Slots	848.8	30.28	-5.1	23.03	<=38.45	Pass		
			3 TX Slots	848.8	28.35	-5.1	21.1	<=38.45	Pass		
			4 TX Slots	848.8	27.32	-5.1	20.07	<=38.45	Pass		
			EGPRS	1 TX Slot	824.2	26.93	-5.1	19.68	<=38.45	Pass	
					2 TX Slots	824.2	23.79	-5.1	16.54	<=38.45	Pass
					3 TX Slots	824.2	24.04	-5.1	16.79	<=38.45	Pass
	4 TX Slots	824.2			20.51	-5.1	13.26	<=38.45	Pass		
	1 TX Slot	836.6			26.88	-5.1	19.63	<=38.45	Pass		
	2 TX Slots	836.6			25.07	-5.1	17.82	<=38.45	Pass		
	3 TX Slots	836.6			21.66	-5.1	14.41	<=38.45	Pass		
	4 TX Slots	836.6			20.51	-5.1	13.26	<=38.45	Pass		
	1 TX Slot	848.8			26.74	-5.1	19.49	<=38.45	Pass		
	2 TX Slots	848.8			23.79	-5.1	16.54	<=38.45	Pass		
	3 TX Slots	848.8			21.44	-5.1	14.19	<=38.45	Pass		
	4 TX Slots	848.8			20.40	-5.1	13.15	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	
GSM	824.2	20	3.6	-7.426	-0.0090	-2.5 to 2.5	Pass
			3.84	-5.779	-0.0070	-2.5 to 2.5	Pass
			4.3	-7.490	-0.0091	-2.5 to 2.5	Pass
		-30	3.84	-4.520	-0.0055	-2.5 to 2.5	Pass
		-20	3.84	-1.550	-0.0019	-2.5 to 2.5	Pass
		-10	3.84	-4.391	-0.0053	-2.5 to 2.5	Pass
		0	3.84	-5.133	-0.0062	-2.5 to 2.5	Pass
		10	3.84	-6.780	-0.0082	-2.5 to 2.5	Pass
		30	3.84	-7.135	-0.0087	-2.5 to 2.5	Pass
		40	3.84	-5.295	-0.0064	-2.5 to 2.5	Pass
	50	3.84	-4.197	-0.0051	-2.5 to 2.5	Pass	
	836.6	20	3.6	-2.421	-0.0029	-2.5 to 2.5	Pass
			3.84	-4.003	-0.0048	-2.5 to 2.5	Pass
			4.3	-5.844	-0.0070	-2.5 to 2.5	Pass
		-30	3.84	-3.390	-0.0041	-2.5 to 2.5	Pass
		-20	3.84	-1.291	-0.0015	-2.5 to 2.5	Pass
		-10	3.84	-3.229	-0.0039	-2.5 to 2.5	Pass
		0	3.84	-3.132	-0.0037	-2.5 to 2.5	Pass
		10	3.84	-5.618	-0.0067	-2.5 to 2.5	Pass
		30	3.84	-3.648	-0.0044	-2.5 to 2.5	Pass
		40	3.84	-1.679	-0.0020	-2.5 to 2.5	Pass
	50	3.84	-2.163	-0.0026	-2.5 to 2.5	Pass	
	848.8	20	3.6	-2.486	-0.0029	-2.5 to 2.5	Pass
			3.84	-3.325	-0.0039	-2.5 to 2.5	Pass
			4.3	-8.814	-0.0104	-2.5 to 2.5	Pass
		-30	3.84	-4.423	-0.0052	-2.5 to 2.5	Pass
		-20	3.84	-4.165	-0.0049	-2.5 to 2.5	Pass
		-10	3.84	-2.615	-0.0031	-2.5 to 2.5	Pass
		0	3.84	-6.909	-0.0081	-2.5 to 2.5	Pass
		10	3.84	-1.873	-0.0022	-2.5 to 2.5	Pass
30		3.84	-4.552	-0.0054	-2.5 to 2.5	Pass	
40		3.84	-1.873	-0.0022	-2.5 to 2.5	Pass	
50	3.84	-4.972	-0.0059	-2.5 to 2.5	Pass		
GPRS	824.2	20	3.6	-4.391	-0.0053	-2.5 to 2.5	Pass
			3.84	-3.584	-0.0043	-2.5 to 2.5	Pass
			4.3	-4.520	-0.0055	-2.5 to 2.5	Pass
		-30	3.84	-5.037	-0.0061	-2.5 to 2.5	Pass
		-20	3.84	-1.776	-0.0022	-2.5 to 2.5	Pass



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836.6	-10	3.84	-7.006	-0.0085	-2.5 to 2.5	Pass		
		0	3.84	-1.711	-0.0021	-2.5 to 2.5	Pass	
		10	3.84	-3.003	-0.0036	-2.5 to 2.5	Pass	
		30	3.84	-2.551	-0.0031	-2.5 to 2.5	Pass	
		40	3.84	-5.037	-0.0061	-2.5 to 2.5	Pass	
	836.6	20	3.6	-4.811	-0.0058	-2.5 to 2.5	Pass	
			3.84	-7.813	-0.0093	-2.5 to 2.5	Pass	
			4.3	-6.845	-0.0082	-2.5 to 2.5	Pass	
		-30	3.84	-5.004	-0.0060	-2.5 to 2.5	Pass	
		-20	3.84	-3.842	-0.0046	-2.5 to 2.5	Pass	
		-10	3.84	-1.711	-0.0020	-2.5 to 2.5	Pass	
		0	3.84	-4.100	-0.0049	-2.5 to 2.5	Pass	
		10	3.84	-5.941	-0.0071	-2.5 to 2.5	Pass	
		30	3.84	-0.807	-0.0010	-2.5 to 2.5	Pass	
		40	3.84	-3.035	-0.0036	-2.5 to 2.5	Pass	
		50	3.84	-2.647	-0.0032	-2.5 to 2.5	Pass	
		848.8	20	3.6	-3.907	-0.0046	-2.5 to 2.5	Pass
				3.84	-4.778	-0.0056	-2.5 to 2.5	Pass
	4.3			-2.228	-0.0026	-2.5 to 2.5	Pass	
	-30		3.84	-4.197	-0.0049	-2.5 to 2.5	Pass	
	-20		3.84	-4.036	-0.0048	-2.5 to 2.5	Pass	
	-10		3.84	-1.259	-0.0015	-2.5 to 2.5	Pass	
	0		3.84	-5.715	-0.0067	-2.5 to 2.5	Pass	
	10		3.84	-3.293	-0.0039	-2.5 to 2.5	Pass	
	30		3.84	-1.453	-0.0017	-2.5 to 2.5	Pass	
	40		3.84	-5.844	-0.0069	-2.5 to 2.5	Pass	
	50		3.84	-5.263	-0.0062	-2.5 to 2.5	Pass	
	EGPRS		824.2	20	3.6	-3.325	-0.0040	-2.5 to 2.5
3.84		-3.842			-0.0047	-2.5 to 2.5	Pass	
4.3		-4.165			-0.0051	-2.5 to 2.5	Pass	
-30		3.84		-0.323	-0.0004	-2.5 to 2.5	Pass	
-20		3.84		-3.261	-0.0040	-2.5 to 2.5	Pass	
-10		3.84		-3.939	-0.0048	-2.5 to 2.5	Pass	
0		3.84		-4.778	-0.0058	-2.5 to 2.5	Pass	
10		3.84		-7.845	-0.0095	-2.5 to 2.5	Pass	
30		3.84		-2.195	-0.0027	-2.5 to 2.5	Pass	
836.6		20	3.6	-4.423	-0.0053	-2.5 to 2.5	Pass	
			3.84	-2.002	-0.0024	-2.5 to 2.5	Pass	
			4.3	-6.134	-0.0073	-2.5 to 2.5	Pass	
		-30	3.84	-2.873	-0.0034	-2.5 to 2.5	Pass	
		-20	3.84	-3.519	-0.0042	-2.5 to 2.5	Pass	
		-10	3.84	-4.423	-0.0053	-2.5 to 2.5	Pass	
		0	3.84	-1.905	-0.0023	-2.5 to 2.5	Pass	
		10	3.84	-4.811	-0.0058	-2.5 to 2.5	Pass	
		30	3.84	-3.390	-0.0041	-2.5 to 2.5	Pass	
40	3.84	-2.325	-0.0028	-2.5 to 2.5	Pass			



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848.8	50	3.84	-3.035	-0.0036	-2.5 to 2.5	Pass
	20	3.6	-2.809	-0.0033	-2.5 to 2.5	Pass
		3.84	-4.100	-0.0048	-2.5 to 2.5	Pass
		4.3	-2.906	-0.0034	-2.5 to 2.5	Pass
	-30	3.84	-1.517	-0.0018	-2.5 to 2.5	Pass
	-20	3.84	-0.839	-0.0010	-2.5 to 2.5	Pass
	-10	3.84	-3.551	-0.0042	-2.5 to 2.5	Pass
	0	3.84	-5.263	-0.0062	-2.5 to 2.5	Pass
	10	3.84	-2.551	-0.0030	-2.5 to 2.5	Pass
	30	3.84	-2.680	-0.0032	-2.5 to 2.5	Pass
	40	3.84	-4.294	-0.0051	-2.5 to 2.5	Pass
	50	3.84	-4.229	-0.0050	-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	GSM	GSM	824.2	0.249	/	Pass
			836.6	0.248	/	Pass
			848.8	0.248	/	Pass
	GPRS	1 TX Slot	824.2	0.248	/	Pass
			836.6	0.247	/	Pass
			848.8	0.244	/	Pass
	EGPRS	1 TX Slot	824.2	0.244	/	Pass
			836.6	0.243	/	Pass
			848.8	0.246	/	Pass



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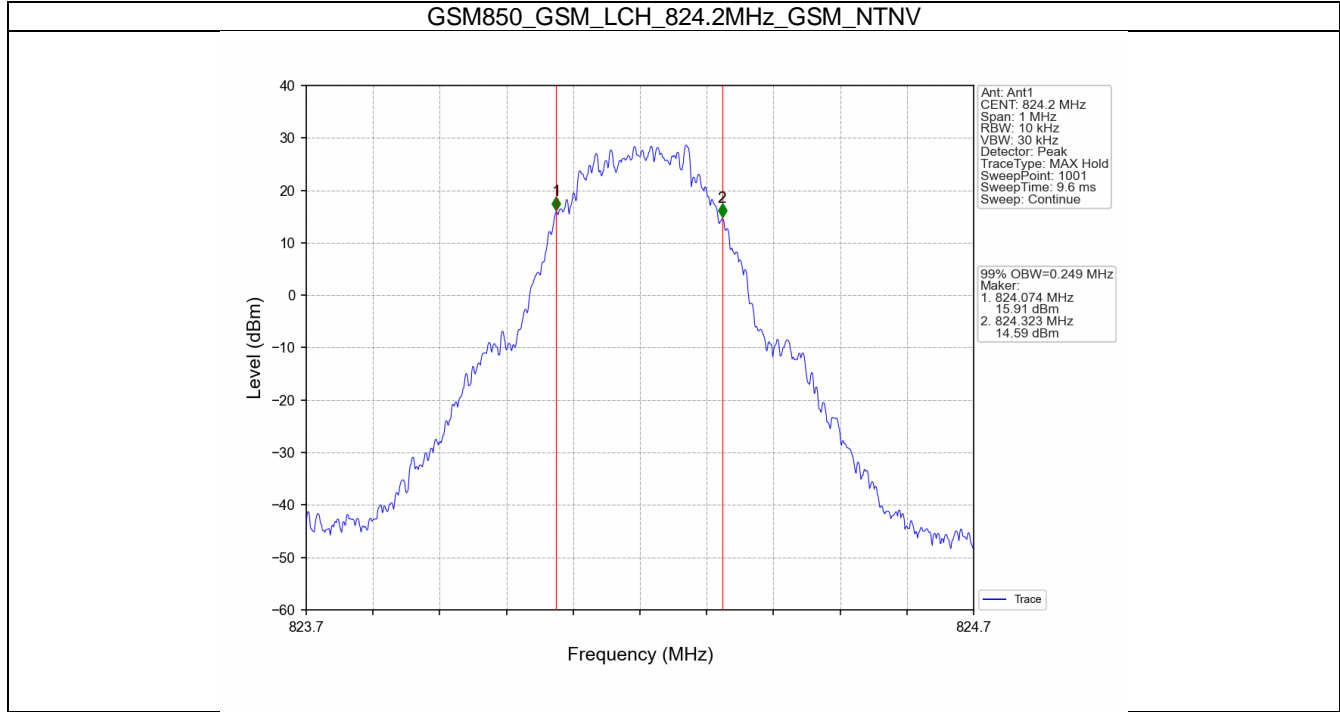
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3.1.2 Test Graph



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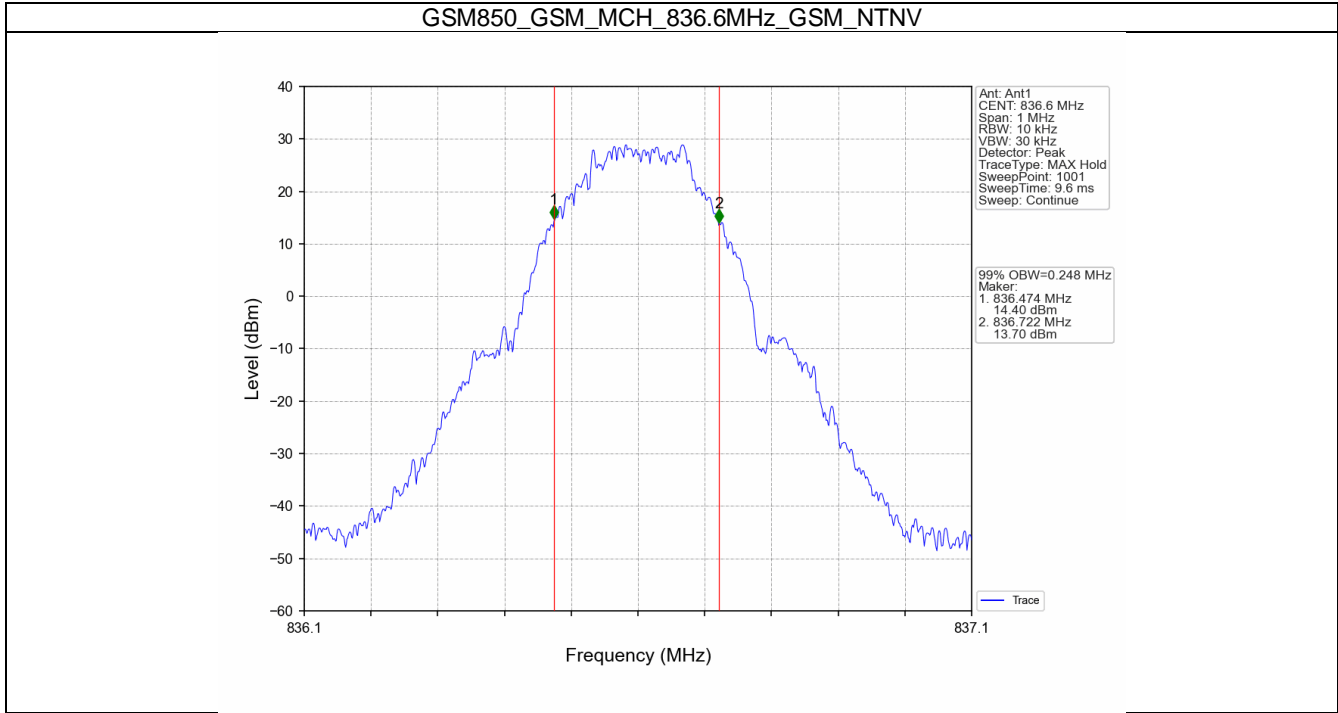
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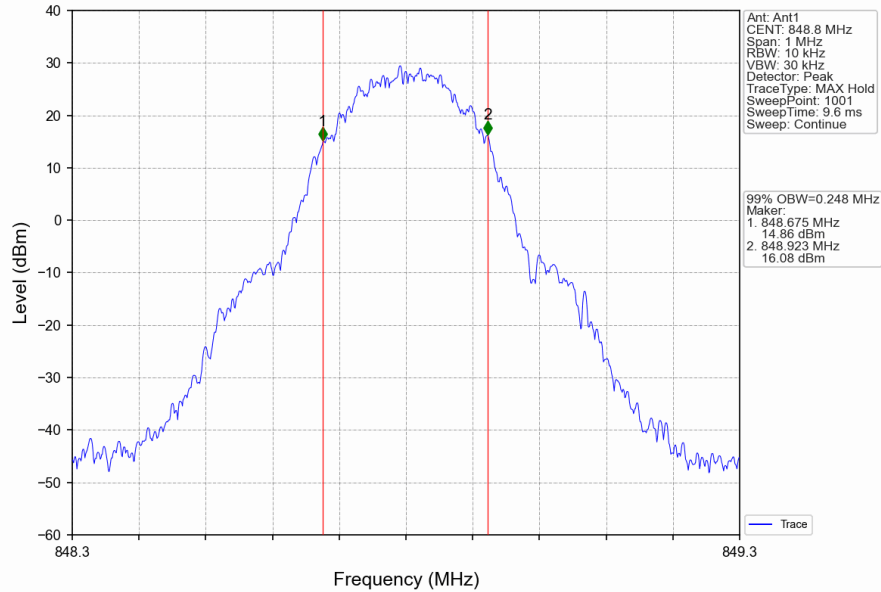
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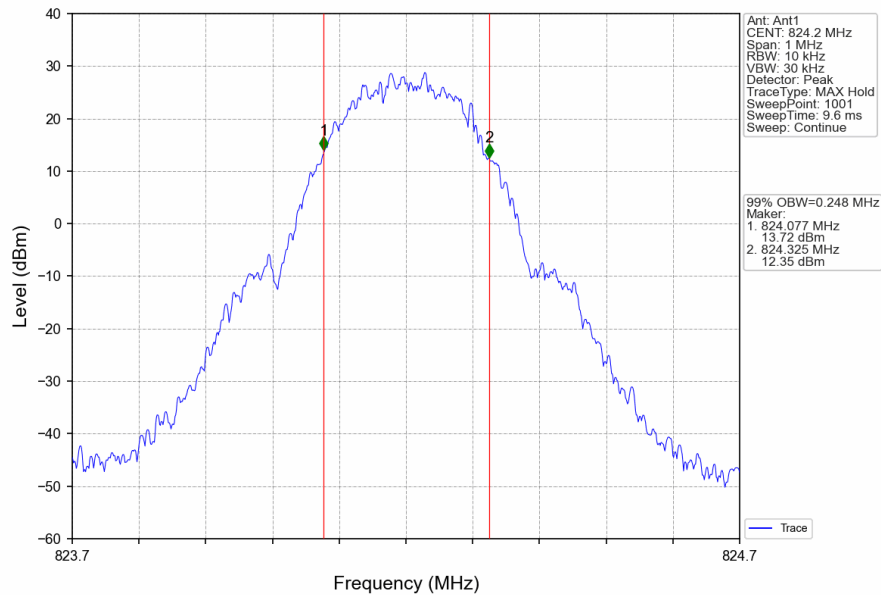
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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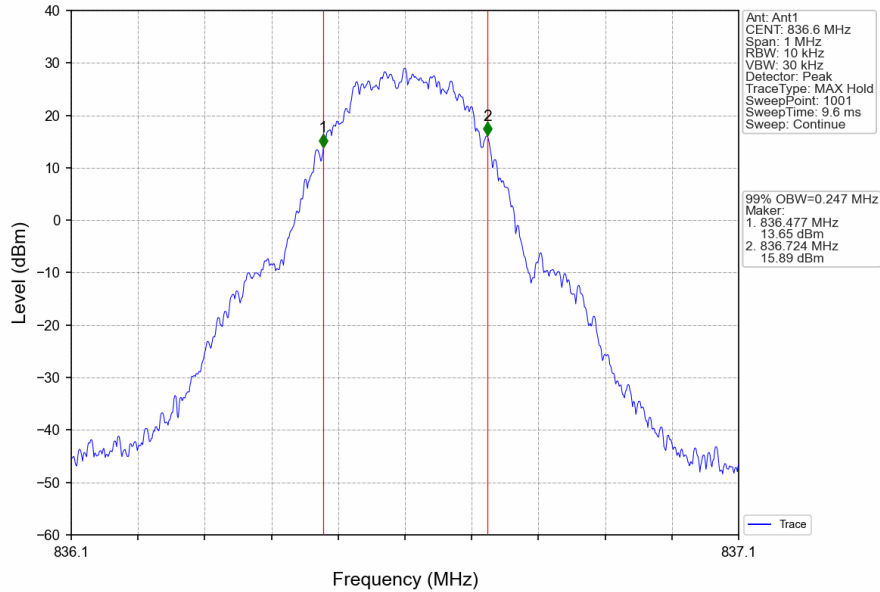
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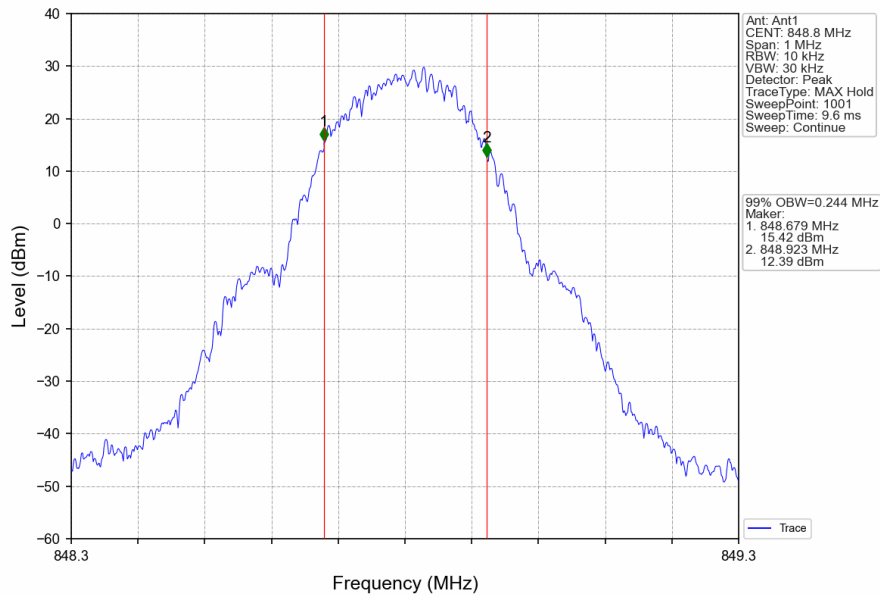
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GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



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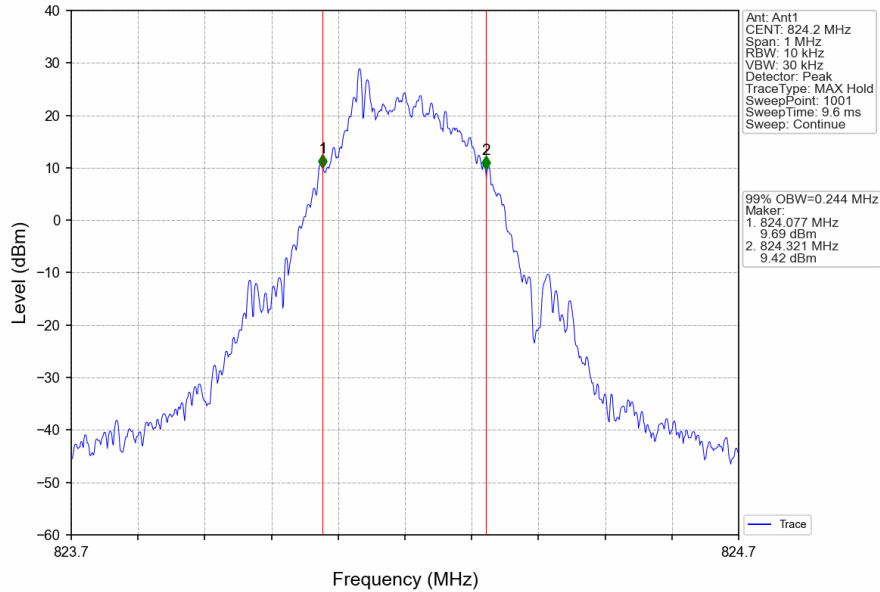
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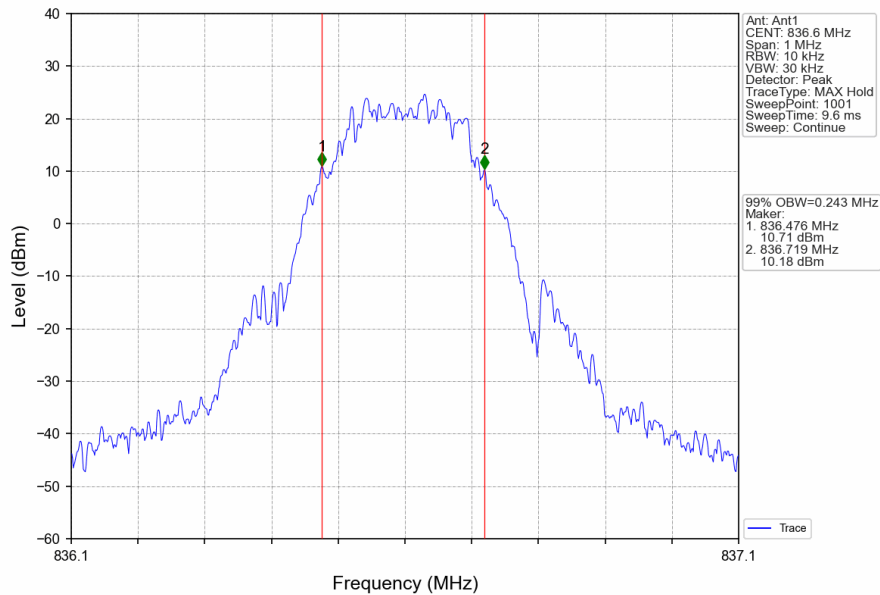
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



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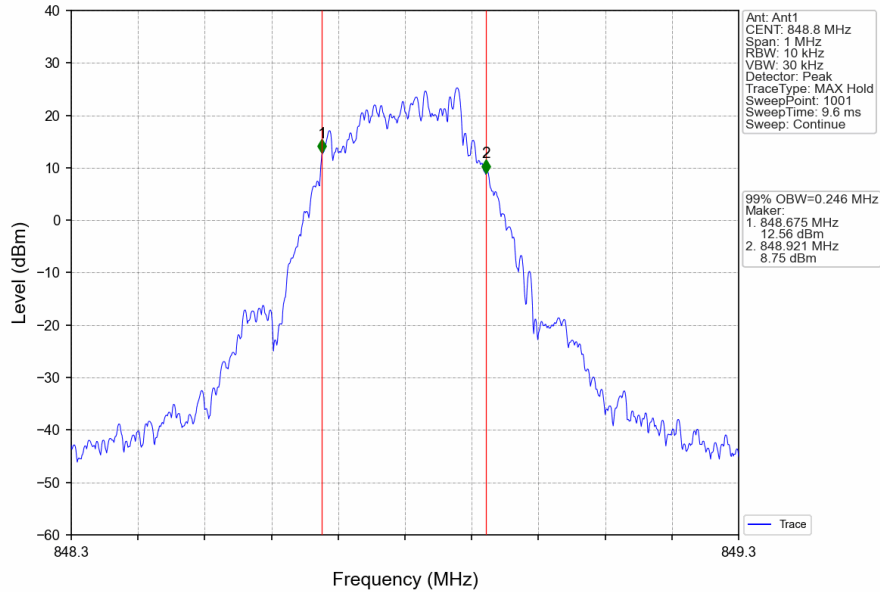
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3.2 GSM850_XDB

3.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.320	/	Pass
			836.6	0.322	/	Pass
			848.8	0.316	/	Pass
	GPRS	1 TX Slot	824.2	0.322	/	Pass
			836.6	0.316	/	Pass
			848.8	0.321	/	Pass
	EGPRS	1 TX Slot	824.2	0.294	/	Pass
			836.6	0.312	/	Pass
			848.8	0.305	/	Pass



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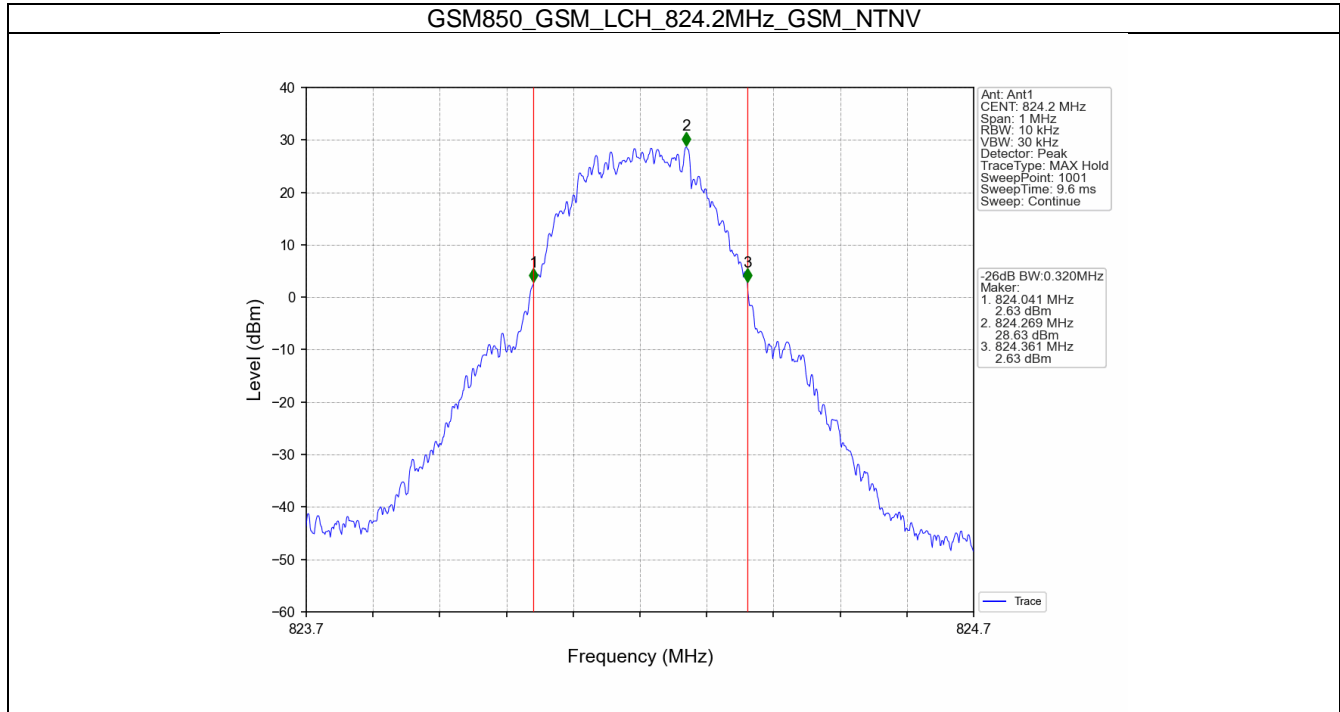
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3.2.2 Test Graph



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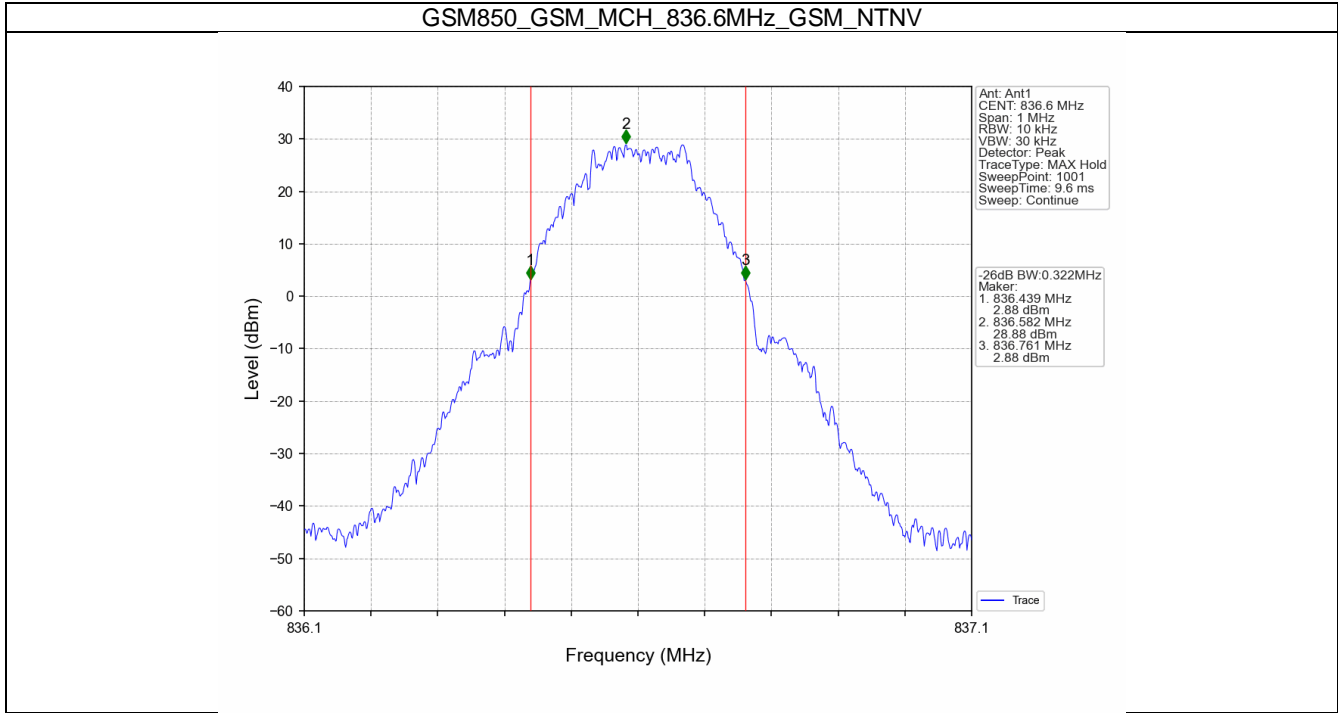
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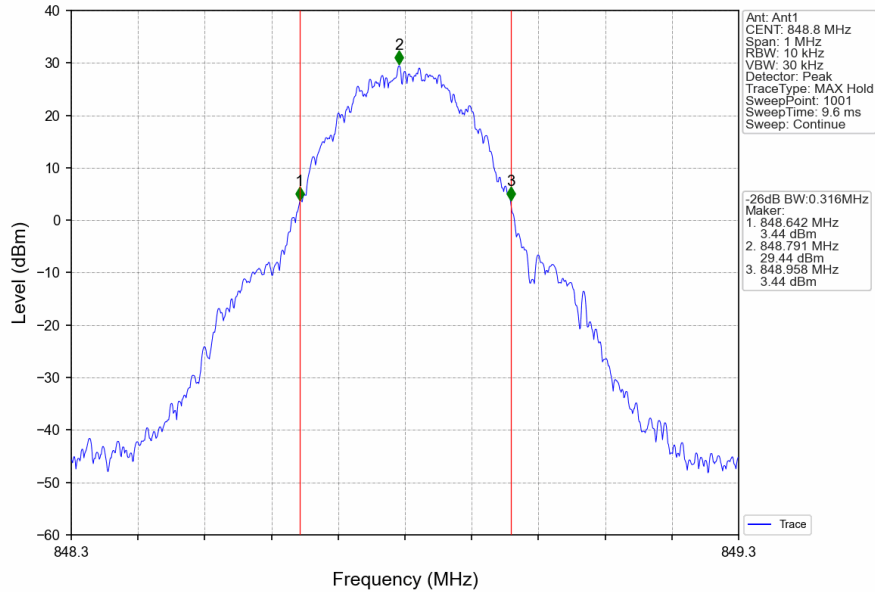
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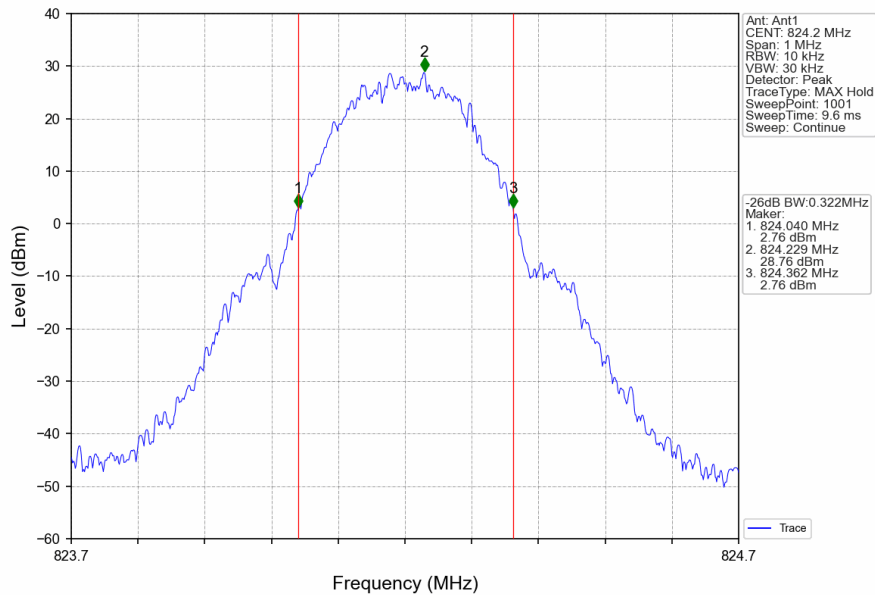
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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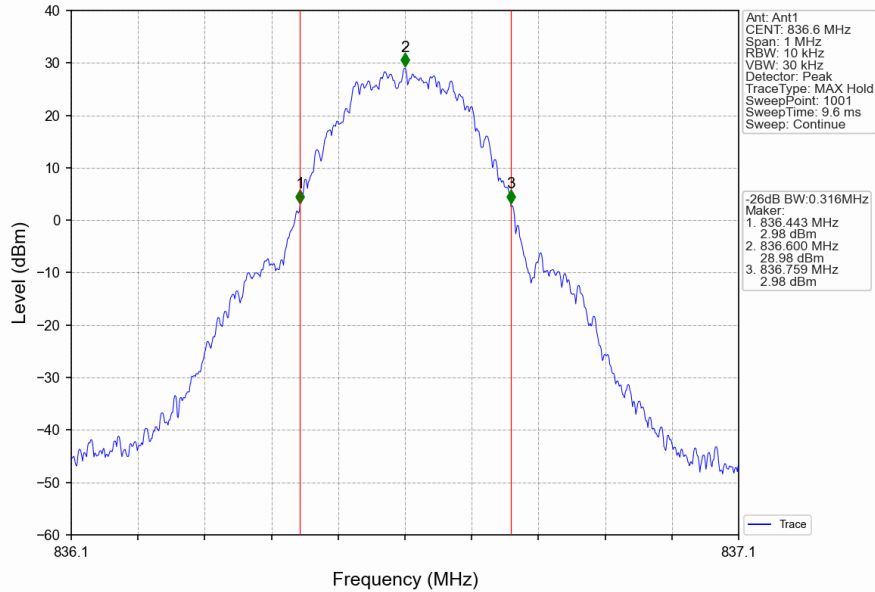
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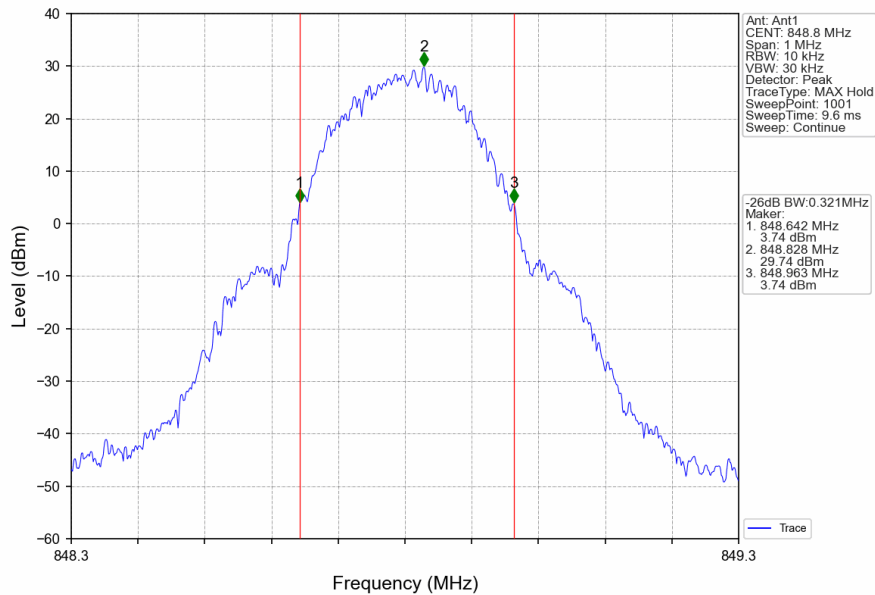
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GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



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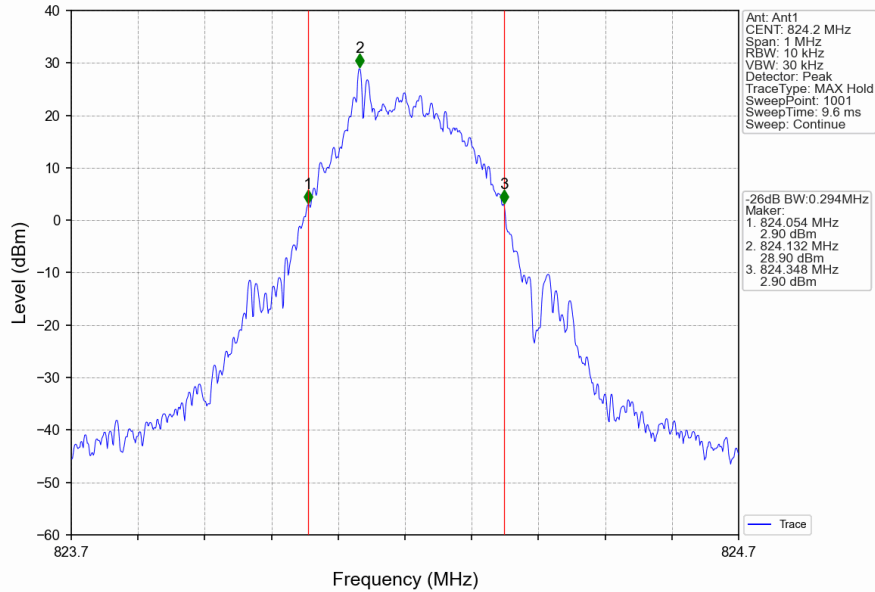
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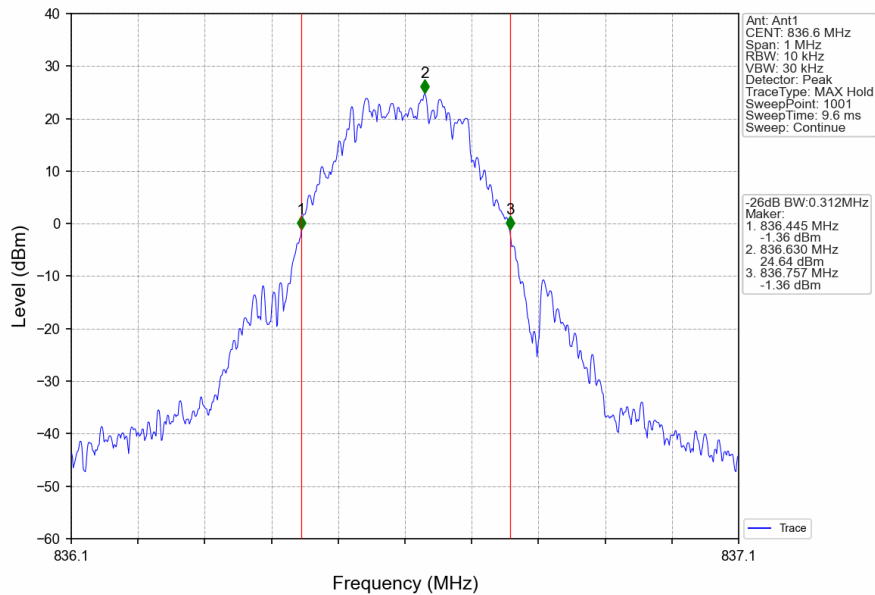
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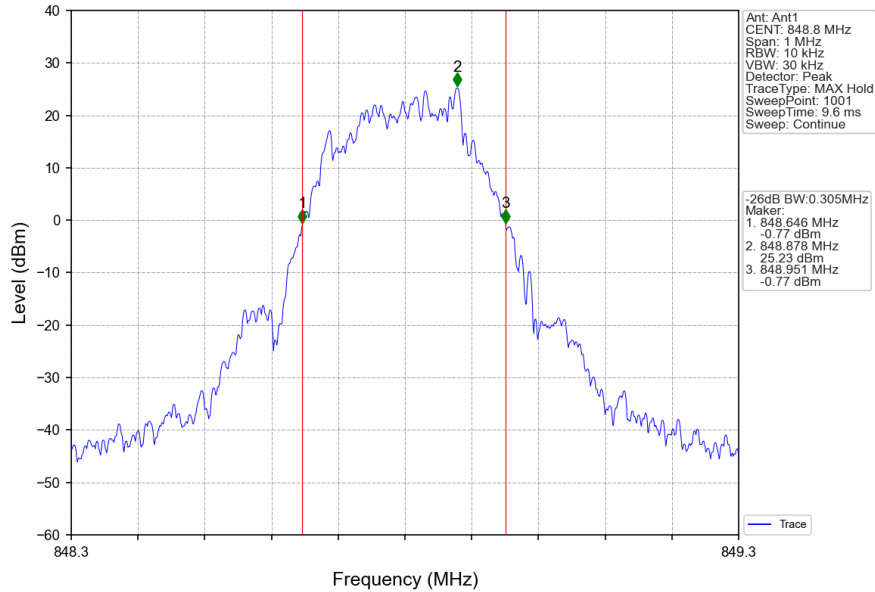
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4. Peak-Average Ratio

4.1 GSM850

4.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.10	<=13	Pass
			836.6	9.47	<=13	Pass
			848.8	9.37	<=13	Pass
	GPRS	4 TX Slots	824.2	3.63	<=13	Pass
			836.6	3.64	<=13	Pass
			848.8	3.56	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.84	<=13	Pass
			836.6	6.82	<=13	Pass
			848.8	6.92	<=13	Pass



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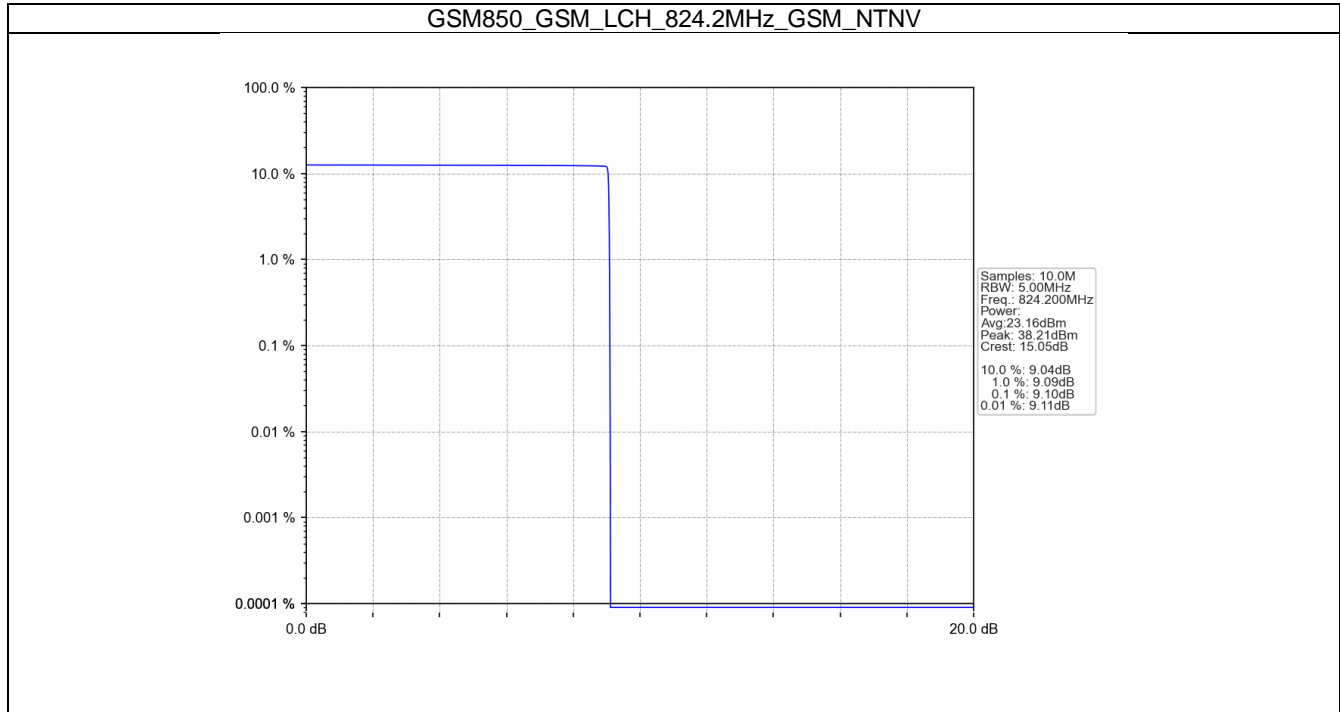
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4.1.2 Test Graph



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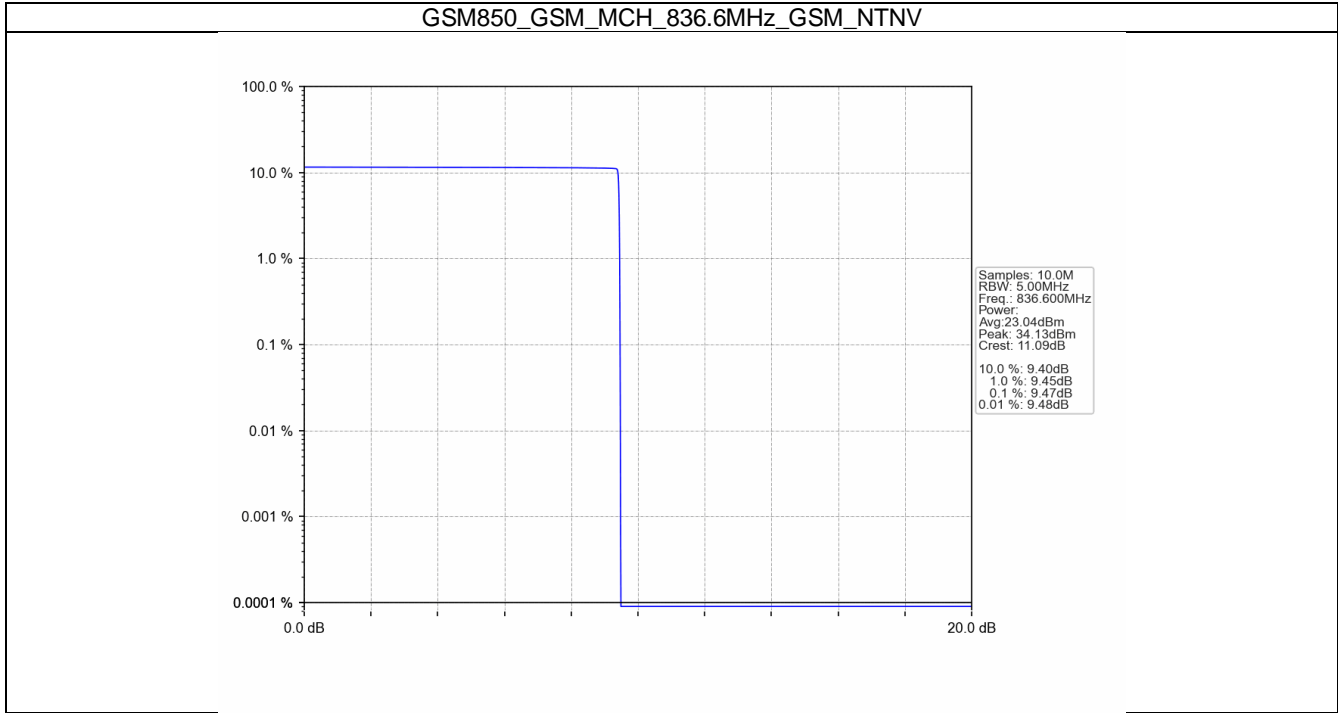
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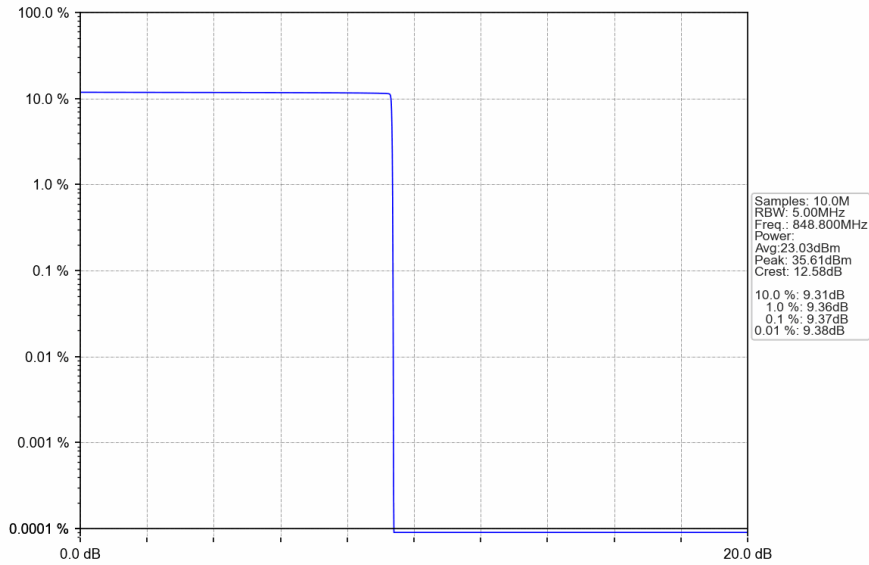
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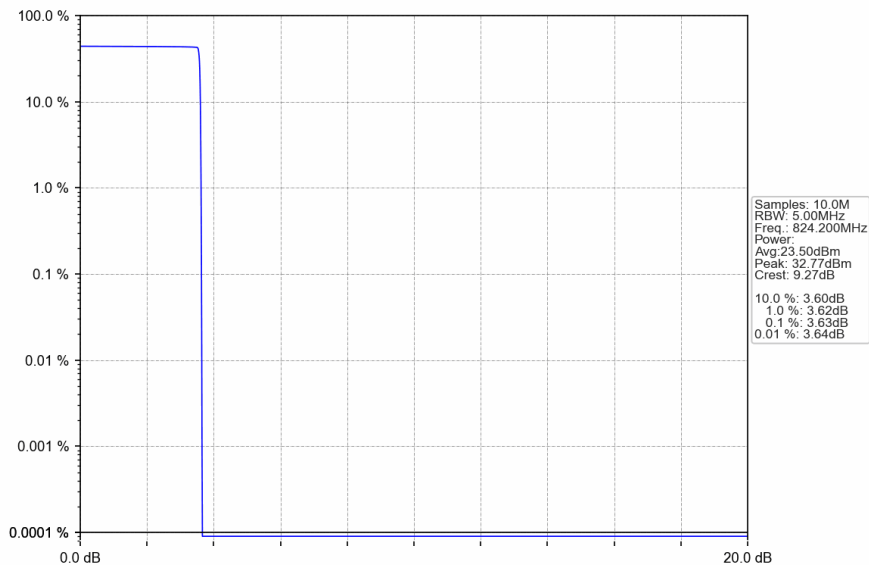
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



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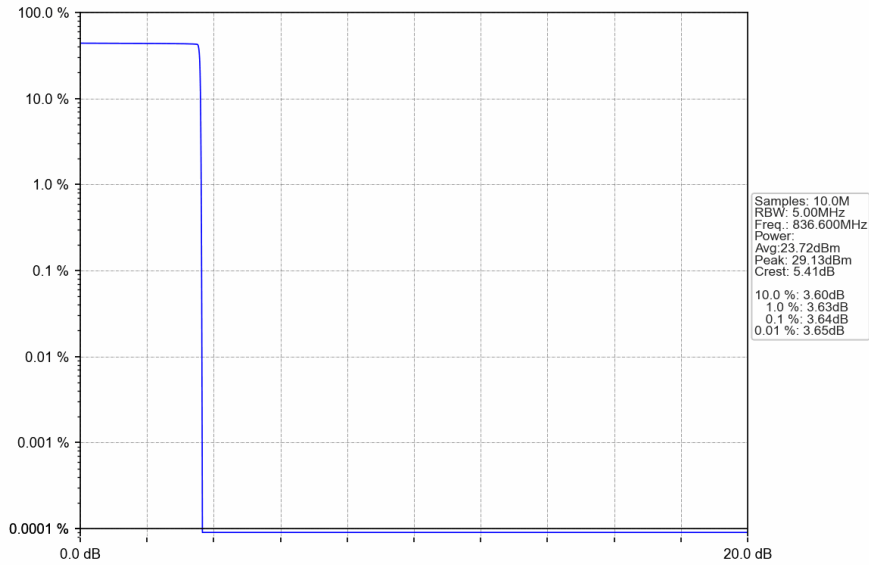
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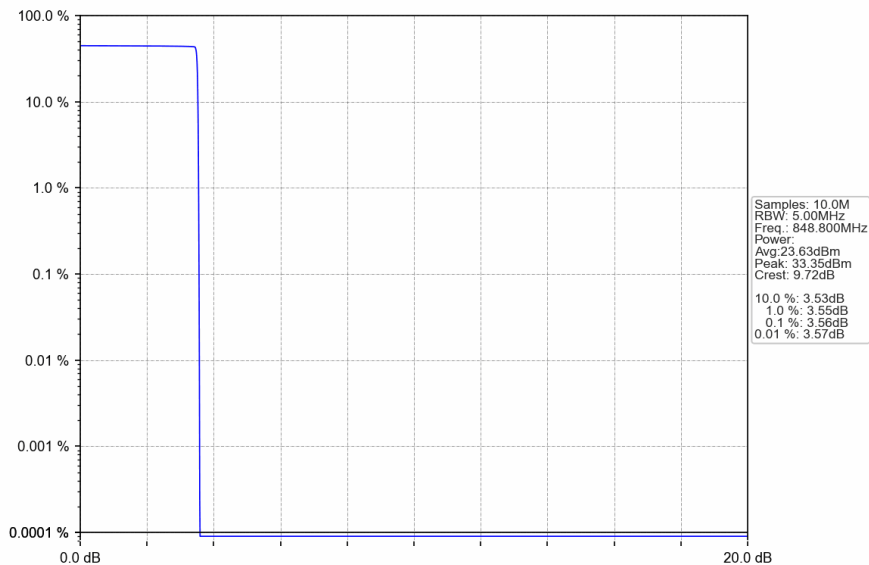
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GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



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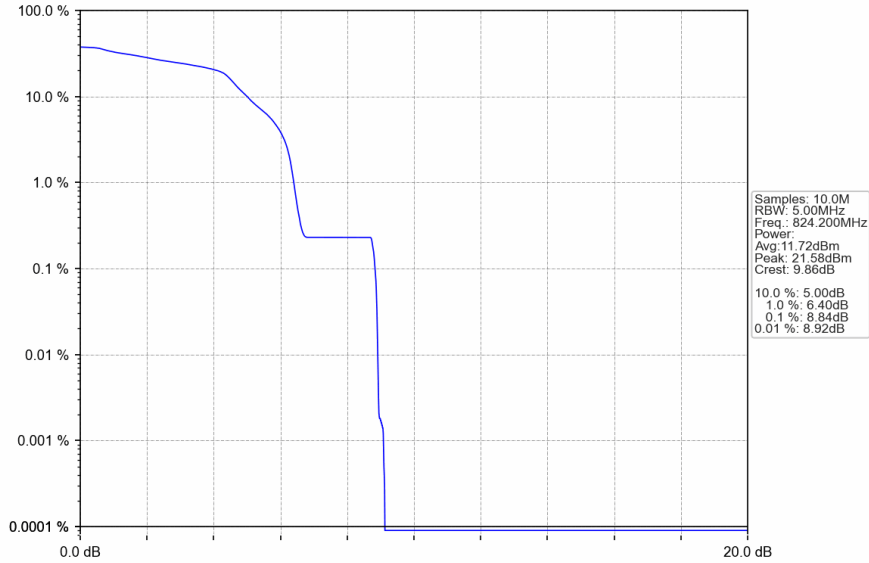
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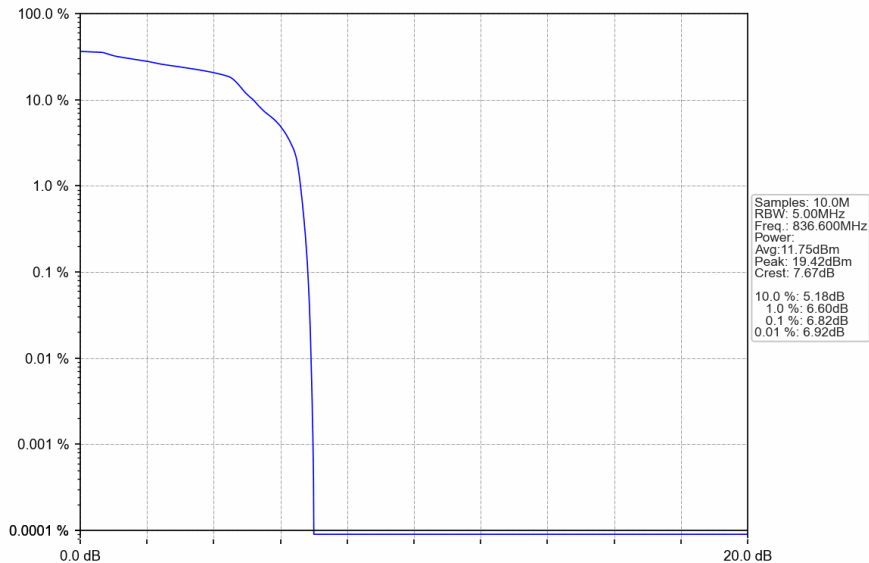
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV



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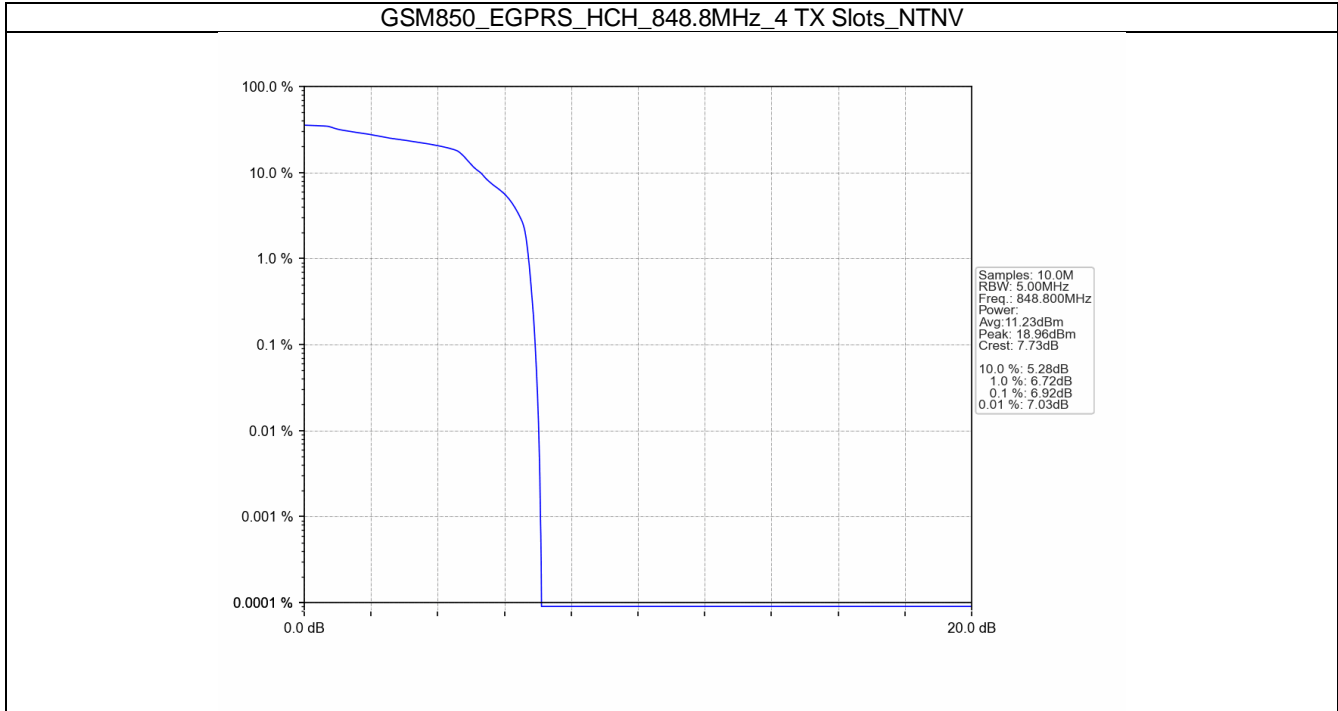
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5. Spurious Emission & Band Edge

5.1 GSM850

5.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	Refer To Test Graph		Pass
			836.6	Refer To Test Graph		Pass
			848.8	Refer To Test Graph		Pass
	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



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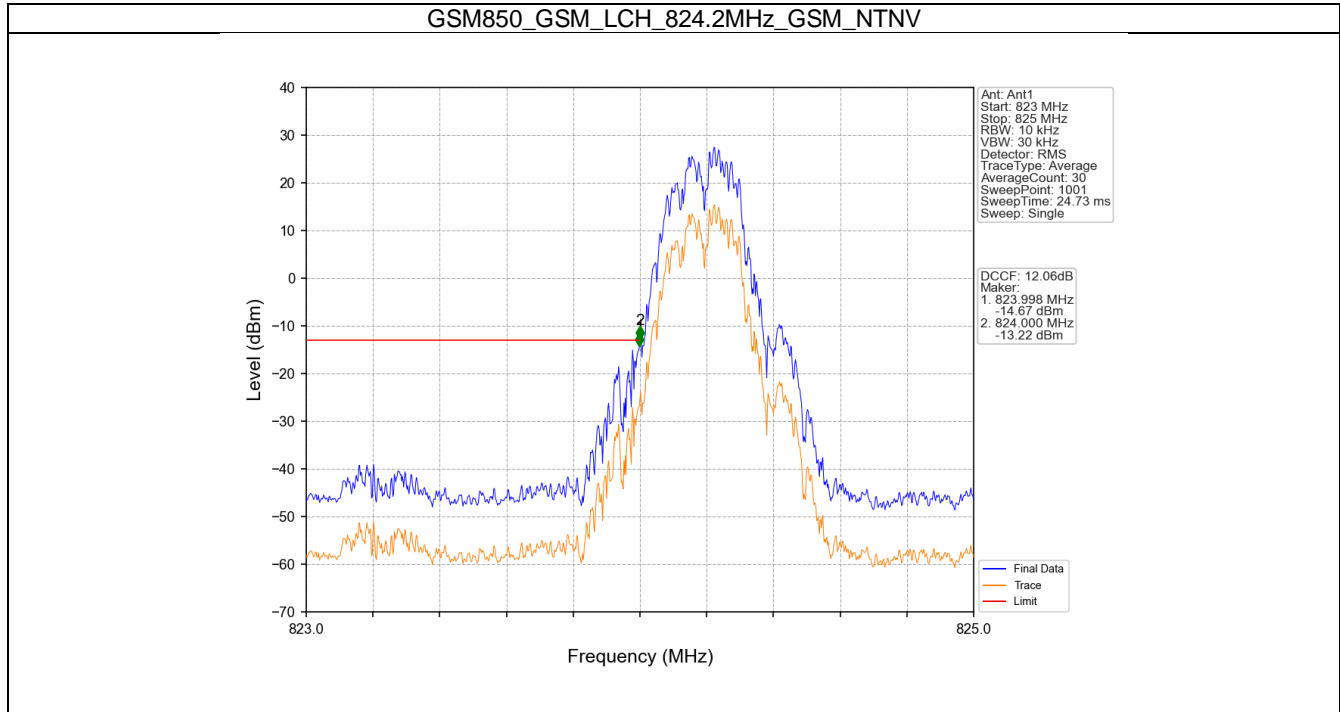
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5.1.2 Test Graph



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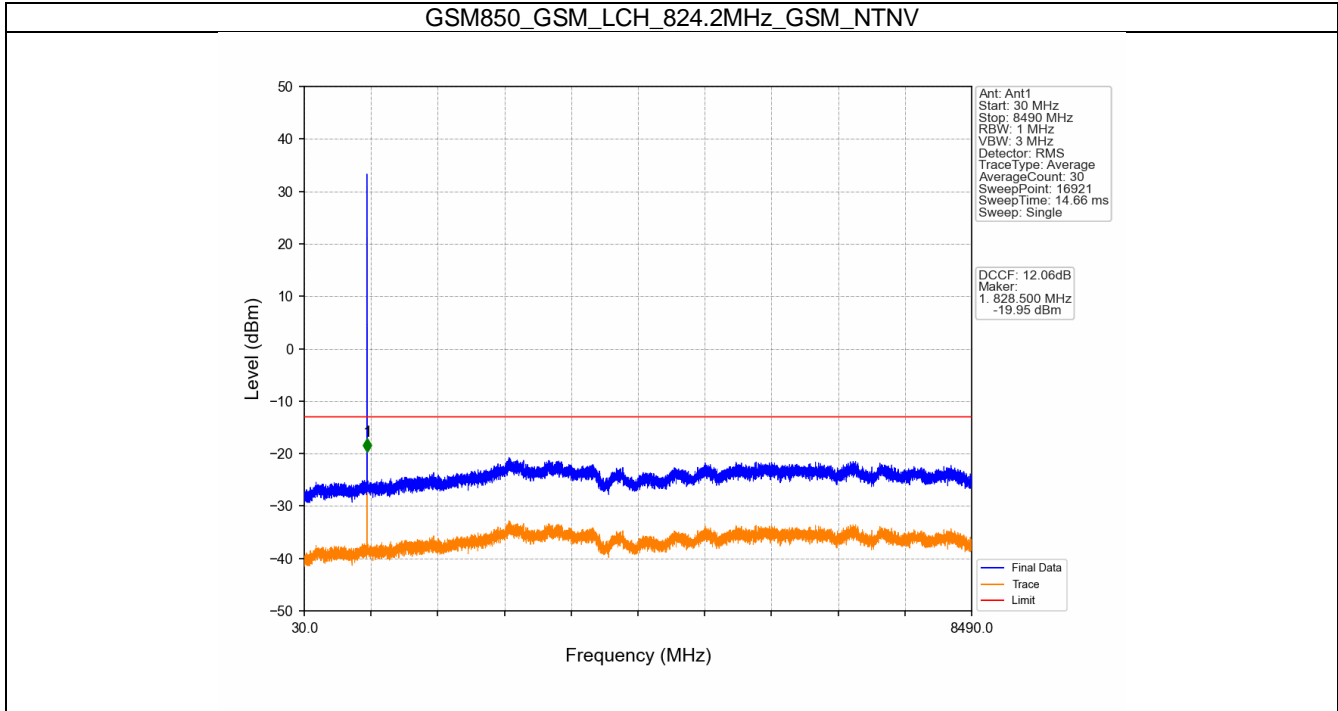
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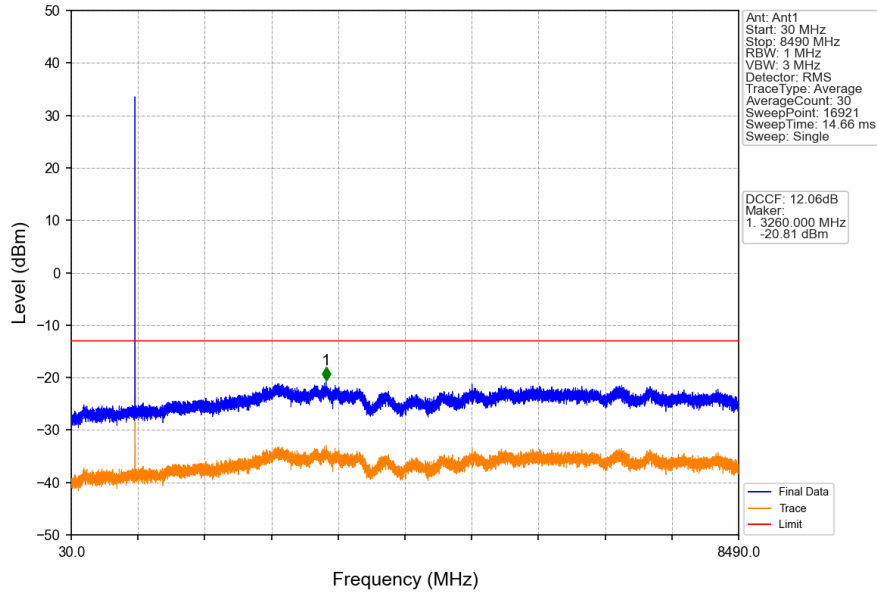
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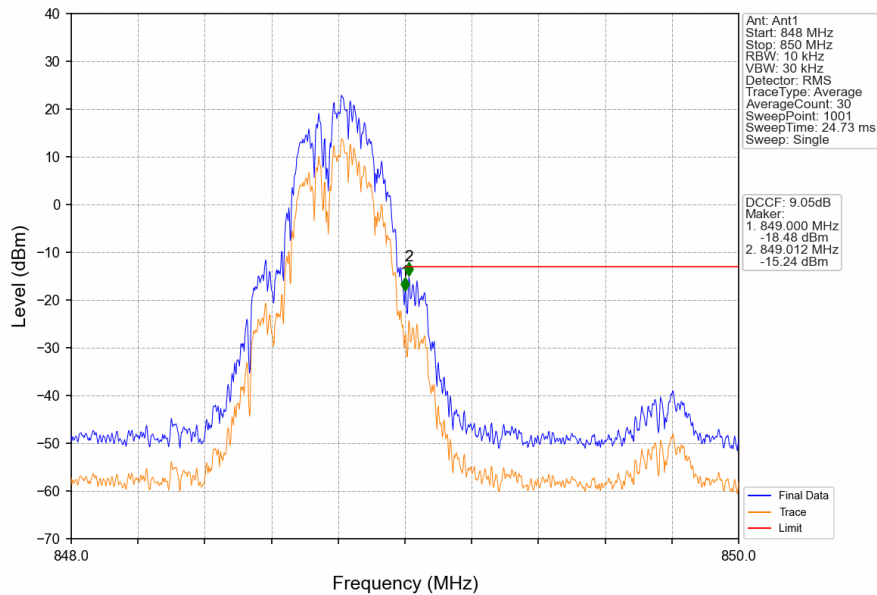
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GSM850_GSM_MCH_836.6MHz_GSM_NTNV



GSM850_GSM_HCH_848.8MHz_GSM_NTNV



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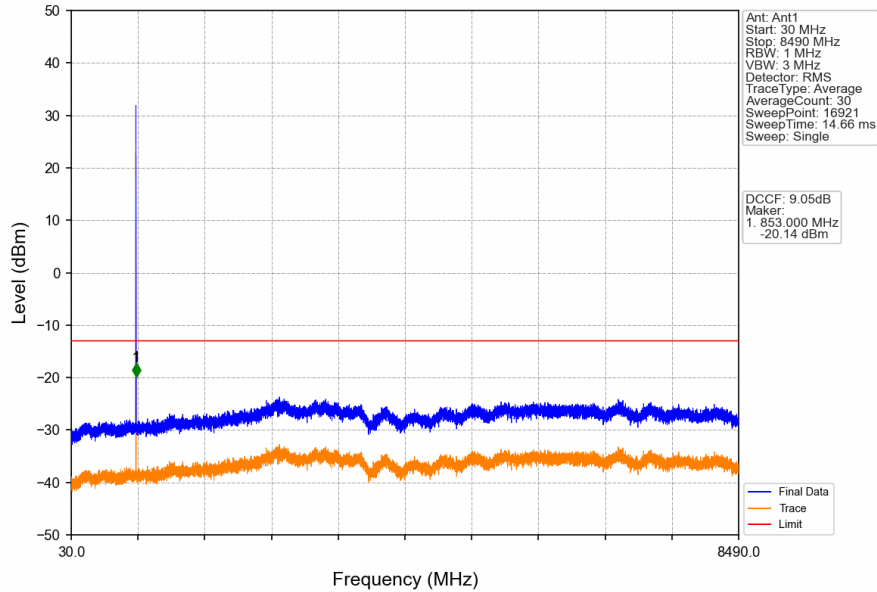
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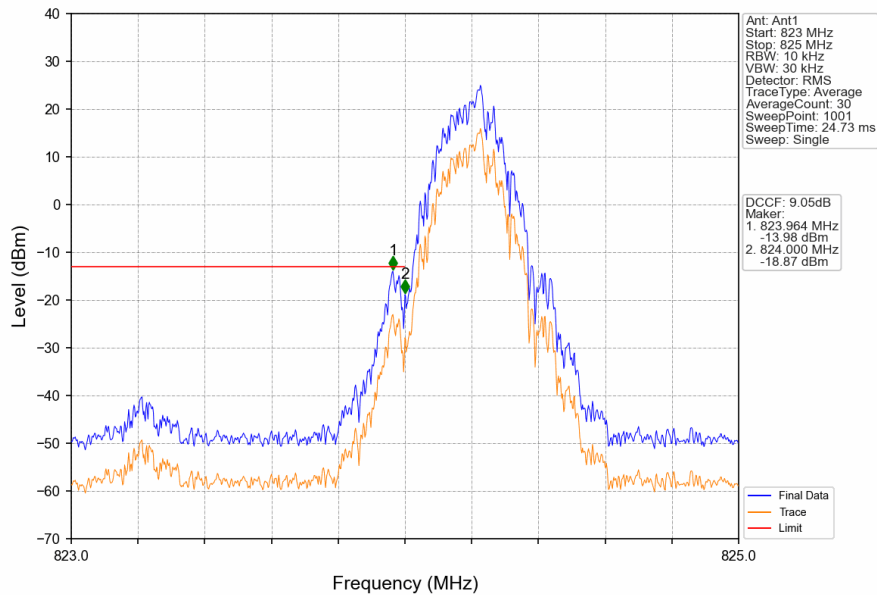
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GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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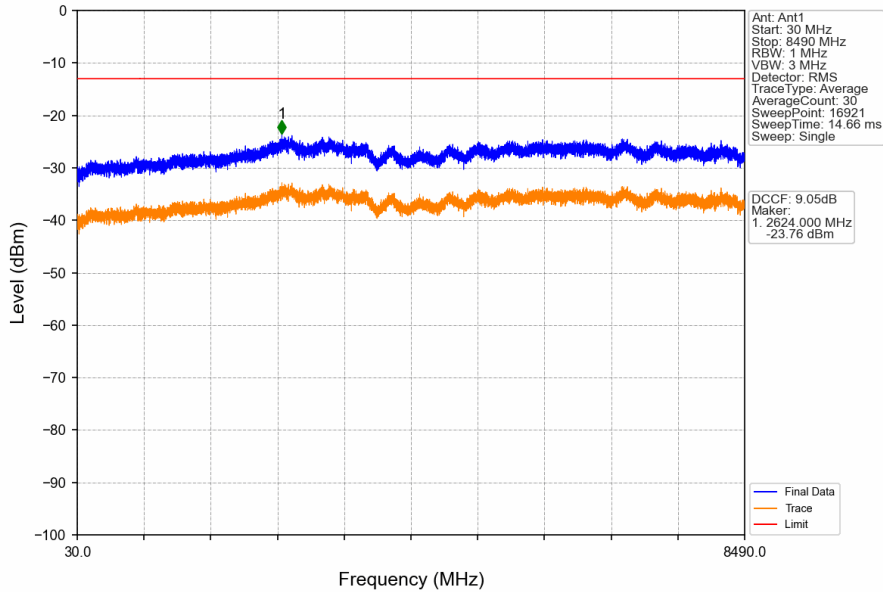
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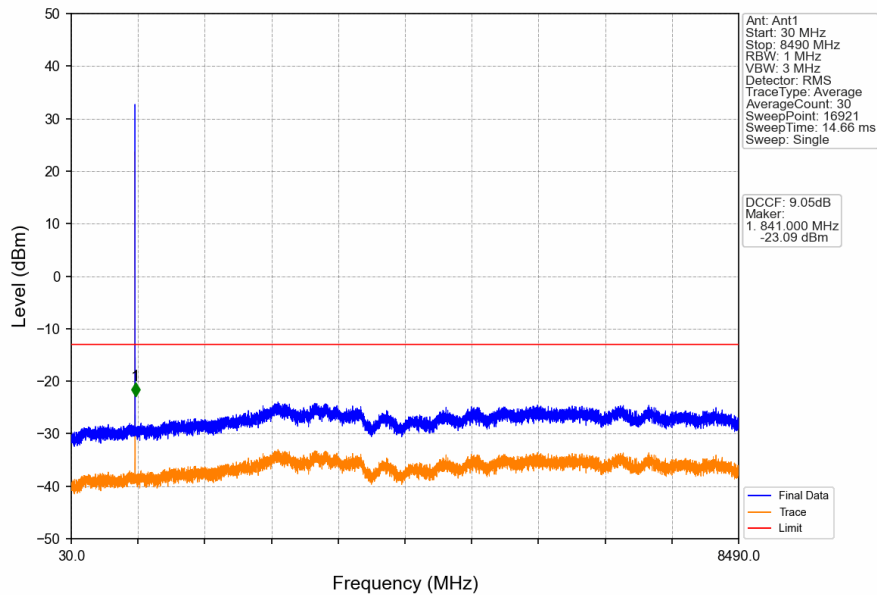
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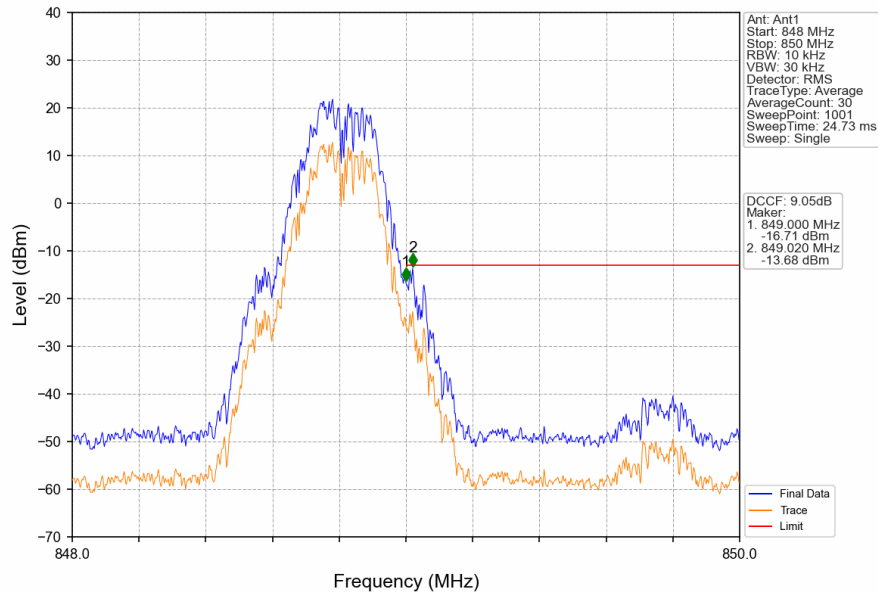
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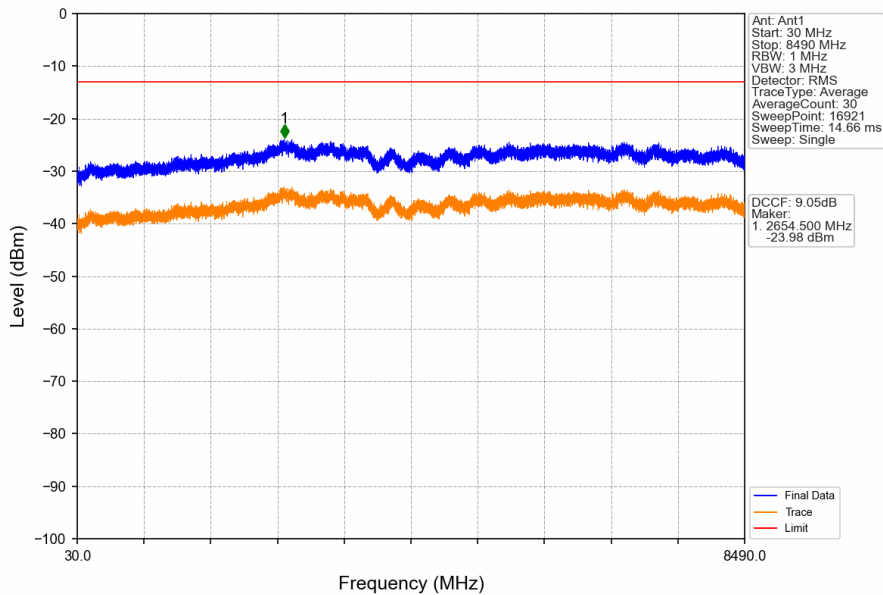
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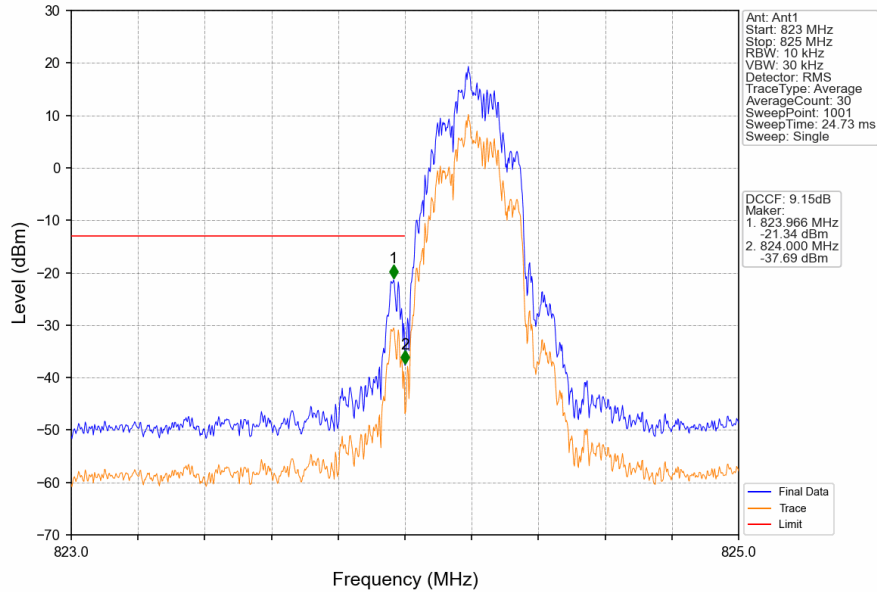
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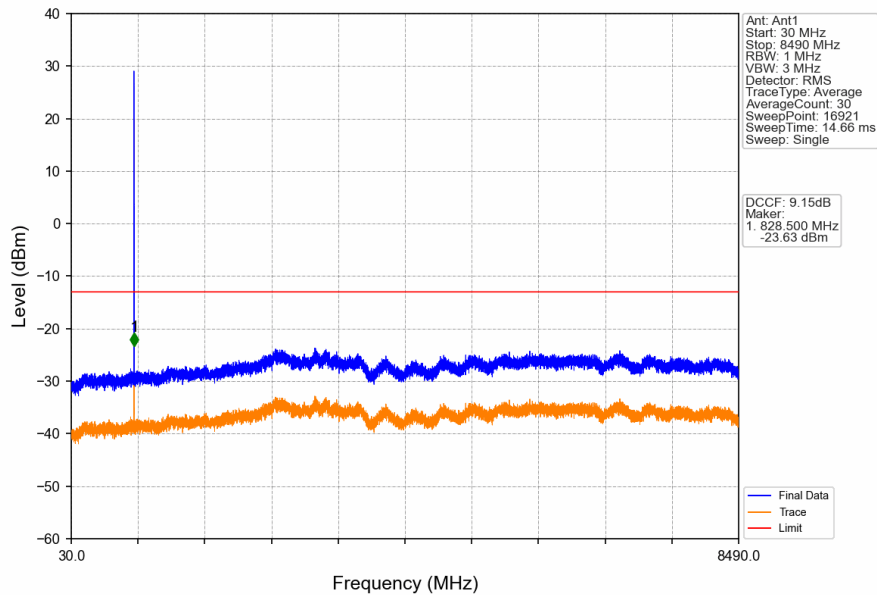
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GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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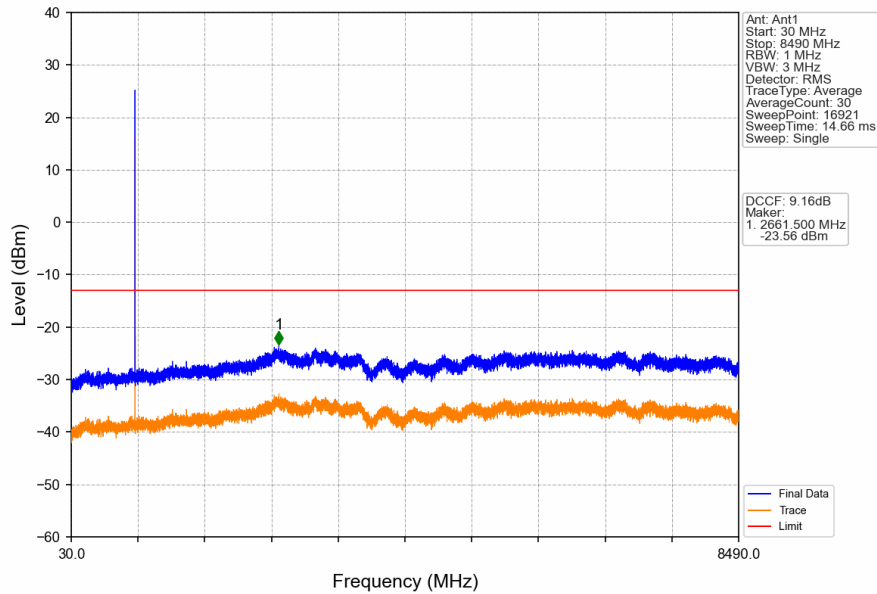
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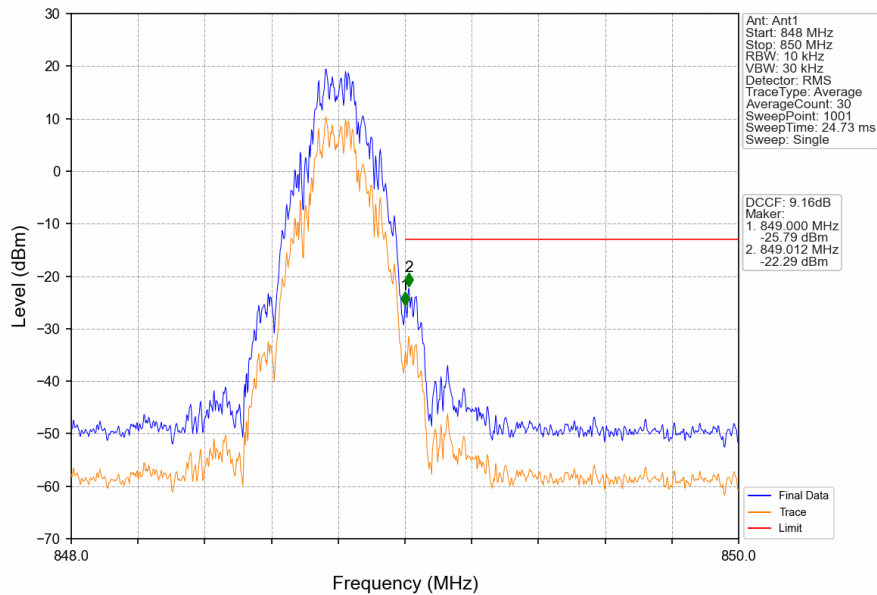
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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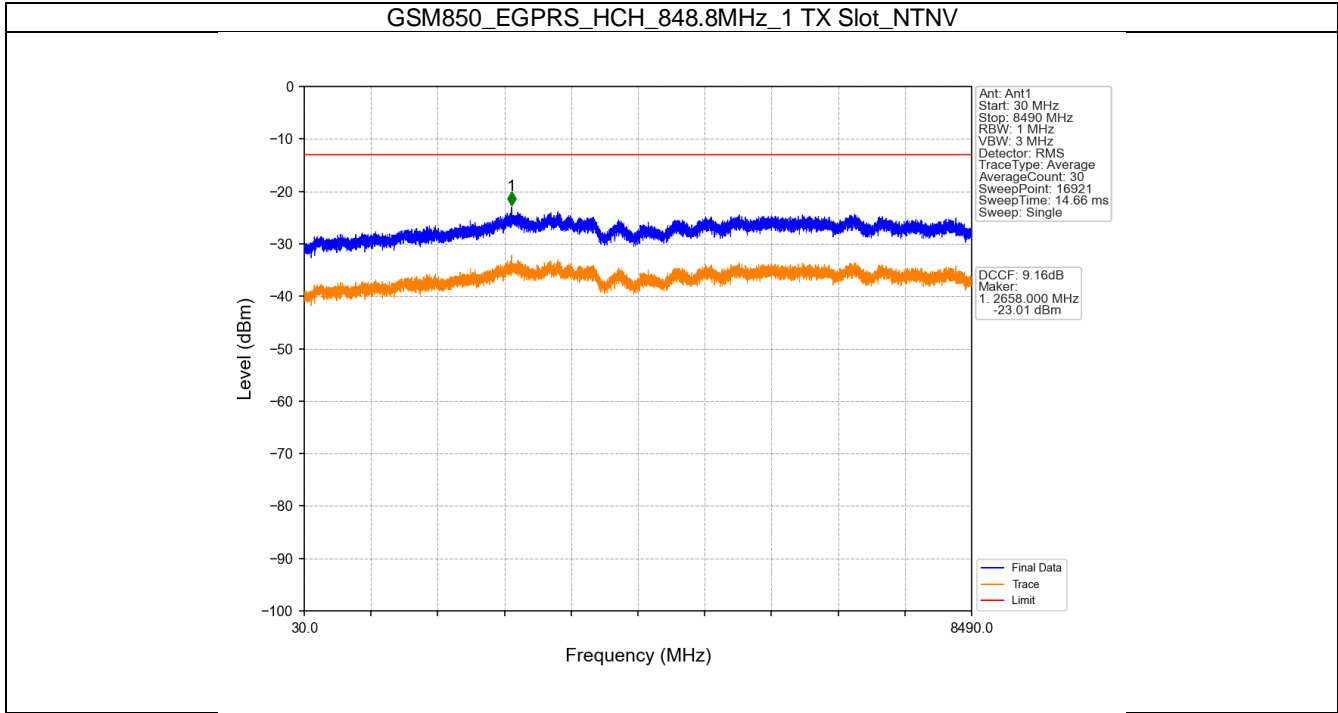
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6. Field Strength of Spurious Radiation

Test Band = GSM850 _ TM1
Test Channel = low

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1652.8	26.29	4.27	38.41	-63.33	-61.06	-13	-48.06	Horizontal
2479.2	28.9	5.16	37.23	-64.09	-56.01	-13	-43.01	Horizontal
3305.6	31.3	5.98	36.13	-64.56	-52.06	-13	-39.06	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1652.8	26.29	4.27	38.41	-63.98	-61.71	-13	-48.71	Vertical
2479.2	28.9	5.16	37.23	-64.92	-56.84	-13	-43.84	Vertical
3305.6	31.3	5.98	36.13	-65.63	-53.13	-13	-40.13	Vertical



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Test Band = GSM850 _ TM1
Test Channel = mid

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1672.8	26.25	4.3	38.41	-63.01	-60.73	-13	-47.73	Horizontal
2509.2	28.97	5.18	37.16	-63.42	-55.99	-13	-42.99	Horizontal
3345.6	32.02	6.03	36.12	-65.33	-52.07	-13	-39.07	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1672.8	26.25	4.3	38.41	-63.46	-61.18	-13	-48.18	Vertical
2509.2	28.97	5.18	37.16	-64.15	-56.72	-13	-43.72	Vertical
3345.6	32.02	6.03	36.12	-63.34	-50.08	-13	-37.08	Vertical



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Test Band = GSM850 _ TM1
Test Channel = high

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1693.2	26.21	4.32	38.41	-62.47	-60.19	-13	-47.19	Horizontal
2539.8	29.22	5.21	37.09	-64.97	-57.12	-13	-44.12	Horizontal
3386.4	32.32	6.09	36.12	-64.53	-50.93	-13	-37.93	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1693.2	26.21	4.32	38.41	-63.09	-60.81	-13	-47.81	Vertical
2539.8	29.22	5.21	37.09	-64.66	-56.81	-13	-43.81	Vertical
3386.4	32.32	6.09	36.12	-65.21	-51.61	-13	-38.61	Vertical

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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