

Appendix E for KSCR2205000668AT-FCC-GSM-850

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	GSM	GSM	824.2	32.79	-2.02	28.62	<=38.45	Pass	
			836.6	32.81	-2.02	28.64	<=38.45	Pass	
			848.8	32.80	-2.02	28.63	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	32.82	-2.02	28.65	<=38.45	Pass	
			2 TX Slots	824.2	32.18	-2.02	28.01	<=38.45	Pass
			3 TX Slots	824.2	30.54	-2.02	26.37	<=38.45	Pass
			4 TX Slots	824.2	29.36	-2.02	25.19	<=38.45	Pass
			1 TX Slot	836.6	32.74	-2.02	28.57	<=38.45	Pass
			2 TX Slots	836.6	32.17	-2.02	28.00	<=38.45	Pass
			3 TX Slots	836.6	30.56	-2.02	26.39	<=38.45	Pass
			4 TX Slots	836.6	29.38	-2.02	25.21	<=38.45	Pass
			1 TX Slot	848.8	32.72	-2.02	28.55	<=38.45	Pass
			2 TX Slots	848.8	32.14	-2.02	27.97	<=38.45	Pass
			3 TX Slots	848.8	30.56	-2.02	26.39	<=38.45	Pass
			4 TX Slots	848.8	29.39	-2.02	25.22	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	27.84	-2.02	23.67	<=38.45	Pass	
			2 TX Slots	824.2	26.71	-2.02	22.54	<=38.45	Pass
			3 TX Slots	824.2	24.42	-2.02	20.25	<=38.45	Pass
			4 TX Slots	824.2	23.07	-2.02	18.90	<=38.45	Pass
			1 TX Slot	836.6	27.66	-2.02	23.49	<=38.45	Pass
			2 TX Slots	836.6	26.73	-2.02	22.56	<=38.45	Pass
			3 TX Slots	836.6	24.31	-2.02	20.14	<=38.45	Pass
			4 TX Slots	836.6	22.98	-2.02	18.81	<=38.45	Pass
			1 TX Slot	848.8	27.72	-2.02	23.55	<=38.45	Pass
			2 TX Slots	848.8	26.80	-2.02	22.63	<=38.45	Pass
			3 TX Slots	848.8	24.56	-2.02	20.39	<=38.45	Pass
			4 TX Slots	848.8	23.21	-2.02	19.04	<=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	

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GSM	824.2	20	3.46	10.945	0.0133	-2.5 to 2.5	Pass	
			3.8	5.392	0.0065	-2.5 to 2.5	Pass	
			4.35	3.713	0.0045	-2.5 to 2.5	Pass	
		-30	3.8	6.037	0.0073	-2.5 to 2.5	Pass	
			-20	3.8	4.036	0.0049	-2.5 to 2.5	Pass
				-10	3.8	6.651	0.0081	-2.5 to 2.5
		0	3.8	5.844	0.0071	-2.5 to 2.5	Pass	
			10	3.8	7.749	0.0094	-2.5 to 2.5	Pass
			30	3.8	5.553	0.0067	-2.5 to 2.5	Pass
		40	3.8	5.585	0.0068	-2.5 to 2.5	Pass	
	50		3.8	6.683	0.0081	-2.5 to 2.5	Pass	
			3.46	7.232	0.0086	-2.5 to 2.5	Pass	
	836.6	20	3.8	5.133	0.0061	-2.5 to 2.5	Pass	
			4.35	6.134	0.0073	-2.5 to 2.5	Pass	
			-30	3.8	10.783	0.0129	-2.5 to 2.5	Pass
		-20	3.8	8.653	0.0103	-2.5 to 2.5	Pass	
			-10	3.8	9.040	0.0108	-2.5 to 2.5	Pass
		0	3.8	8.168	0.0098	-2.5 to 2.5	Pass	
			10	3.8	7.329	0.0088	-2.5 to 2.5	Pass
			30	3.8	5.263	0.0063	-2.5 to 2.5	Pass
		40	3.8	4.649	0.0056	-2.5 to 2.5	Pass	
			50	3.8	5.585	0.0067	-2.5 to 2.5	Pass
	3.46			6.845	0.0081	-2.5 to 2.5	Pass	
	848.8	20	3.8	10.945	0.0129	-2.5 to 2.5	Pass	
			4.35	11.591	0.0137	-2.5 to 2.5	Pass	
			-30	3.8	10.364	0.0122	-2.5 to 2.5	Pass
		-20	3.8	11.752	0.0138	-2.5 to 2.5	Pass	
			-10	3.8	9.879	0.0116	-2.5 to 2.5	Pass
0		3.8	6.296	0.0074	-2.5 to 2.5	Pass		
		10	3.8	11.235	0.0132	-2.5 to 2.5	Pass	
		30	3.8	8.975	0.0106	-2.5 to 2.5	Pass	
40		3.8	10.880	0.0128	-2.5 to 2.5	Pass		
		50	3.8	10.687	0.0126	-2.5 to 2.5	Pass	
	3.46		5.166	0.0063	-2.5 to 2.5	Pass		
GPRS	824.2	20	3.8	5.263	0.0064	-2.5 to 2.5	Pass	
			4.35	5.876	0.0071	-2.5 to 2.5	Pass	
			-30	3.8	3.842	0.0047	-2.5 to 2.5	Pass
		-20	3.8	5.941	0.0072	-2.5 to 2.5	Pass	
			-10	3.8	5.456	0.0066	-2.5 to 2.5	Pass
		0	3.8	4.681	0.0057	-2.5 to 2.5	Pass	
			10	3.8	6.134	0.0074	-2.5 to 2.5	Pass
			30	3.8	4.681	0.0057	-2.5 to 2.5	Pass
		40	3.8	4.617	0.0056	-2.5 to 2.5	Pass	
			50	3.8	4.617	0.0056	-2.5 to 2.5	Pass
	3.46			5.263	0.0063	-2.5 to 2.5	Pass	
	836.6	20	3.8	4.100	0.0049	-2.5 to 2.5	Pass	
			4.35	8.136	0.0097	-2.5 to 2.5	Pass	
			-30	3.8	5.327	0.0064	-2.5 to 2.5	Pass
		-20	3.8	5.069	0.0061	-2.5 to 2.5	Pass	
			-10	3.8	5.618	0.0067	-2.5 to 2.5	Pass
		0	3.8	3.519	0.0042	-2.5 to 2.5	Pass	
			10	3.8	5.004	0.0060	-2.5 to 2.5	Pass
			30	3.8	5.295	0.0063	-2.5 to 2.5	Pass
		40	3.8	7.652	0.0091	-2.5 to 2.5	Pass	

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	848.8	50	3.8	4.617	0.0055	-2.5 to 2.5	Pass
		20	3.46	3.196	0.0038	-2.5 to 2.5	Pass
			3.8	5.747	0.0068	-2.5 to 2.5	Pass
			4.35	7.813	0.0092	-2.5 to 2.5	Pass
		-30	3.8	4.068	0.0048	-2.5 to 2.5	Pass
		-20	3.8	5.973	0.0070	-2.5 to 2.5	Pass
		-10	3.8	6.037	0.0071	-2.5 to 2.5	Pass
		0	3.8	3.099	0.0037	-2.5 to 2.5	Pass
		10	3.8	8.814	0.0104	-2.5 to 2.5	Pass
		30	3.8	5.489	0.0065	-2.5 to 2.5	Pass
40	3.8	7.329	0.0086	-2.5 to 2.5	Pass		
50	3.8	6.037	0.0071	-2.5 to 2.5	Pass		
EGPRS	824.2	20	3.46	2.680	0.0033	-2.5 to 2.5	Pass
			3.8	-0.807	-0.0010	-2.5 to 2.5	Pass
			4.35	3.907	0.0047	-2.5 to 2.5	Pass
		-30	3.8	1.743	0.0021	-2.5 to 2.5	Pass
		-20	3.8	-0.032	0.0000	-2.5 to 2.5	Pass
		-10	3.8	1.550	0.0019	-2.5 to 2.5	Pass
		0	3.8	3.842	0.0047	-2.5 to 2.5	Pass
		10	3.8	3.390	0.0041	-2.5 to 2.5	Pass
		30	3.8	4.455	0.0054	-2.5 to 2.5	Pass
		40	3.8	0.775	0.0009	-2.5 to 2.5	Pass
	50	3.8	4.003	0.0049	-2.5 to 2.5	Pass	
	836.6	20	3.46	0.646	0.0008	-2.5 to 2.5	Pass
			3.8	2.195	0.0026	-2.5 to 2.5	Pass
			4.35	0.097	0.0001	-2.5 to 2.5	Pass
		-30	3.8	3.261	0.0039	-2.5 to 2.5	Pass
		-20	3.8	3.003	0.0036	-2.5 to 2.5	Pass
		-10	3.8	0.420	0.0005	-2.5 to 2.5	Pass
		0	3.8	1.840	0.0022	-2.5 to 2.5	Pass
		10	3.8	1.905	0.0023	-2.5 to 2.5	Pass
		30	3.8	4.068	0.0049	-2.5 to 2.5	Pass
		40	3.8	2.647	0.0032	-2.5 to 2.5	Pass
	50	3.8	1.969	0.0024	-2.5 to 2.5	Pass	
	848.8	20	3.46	2.615	0.0031	-2.5 to 2.5	Pass
			3.8	0.129	0.0002	-2.5 to 2.5	Pass
			4.35	2.195	0.0026	-2.5 to 2.5	Pass
		-30	3.8	4.423	0.0052	-2.5 to 2.5	Pass
		-20	3.8	0.032	0.0000	-2.5 to 2.5	Pass
		-10	3.8	3.455	0.0041	-2.5 to 2.5	Pass
		0	3.8	3.325	0.0039	-2.5 to 2.5	Pass
		10	3.8	1.937	0.0023	-2.5 to 2.5	Pass
30		3.8	4.423	0.0052	-2.5 to 2.5	Pass	
40		3.8	2.583	0.0030	-2.5 to 2.5	Pass	
50	3.8	4.875	0.0057	-2.5 to 2.5	Pass		

### 3. Modulation Characteristics

#### 3.1 GSM850

##### 3.1.1 Test Result



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ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	836.6	Refer To Test Graph		Pass
	GPRS	1 TX Slot	836.6	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	836.6	Refer To Test Graph		Pass



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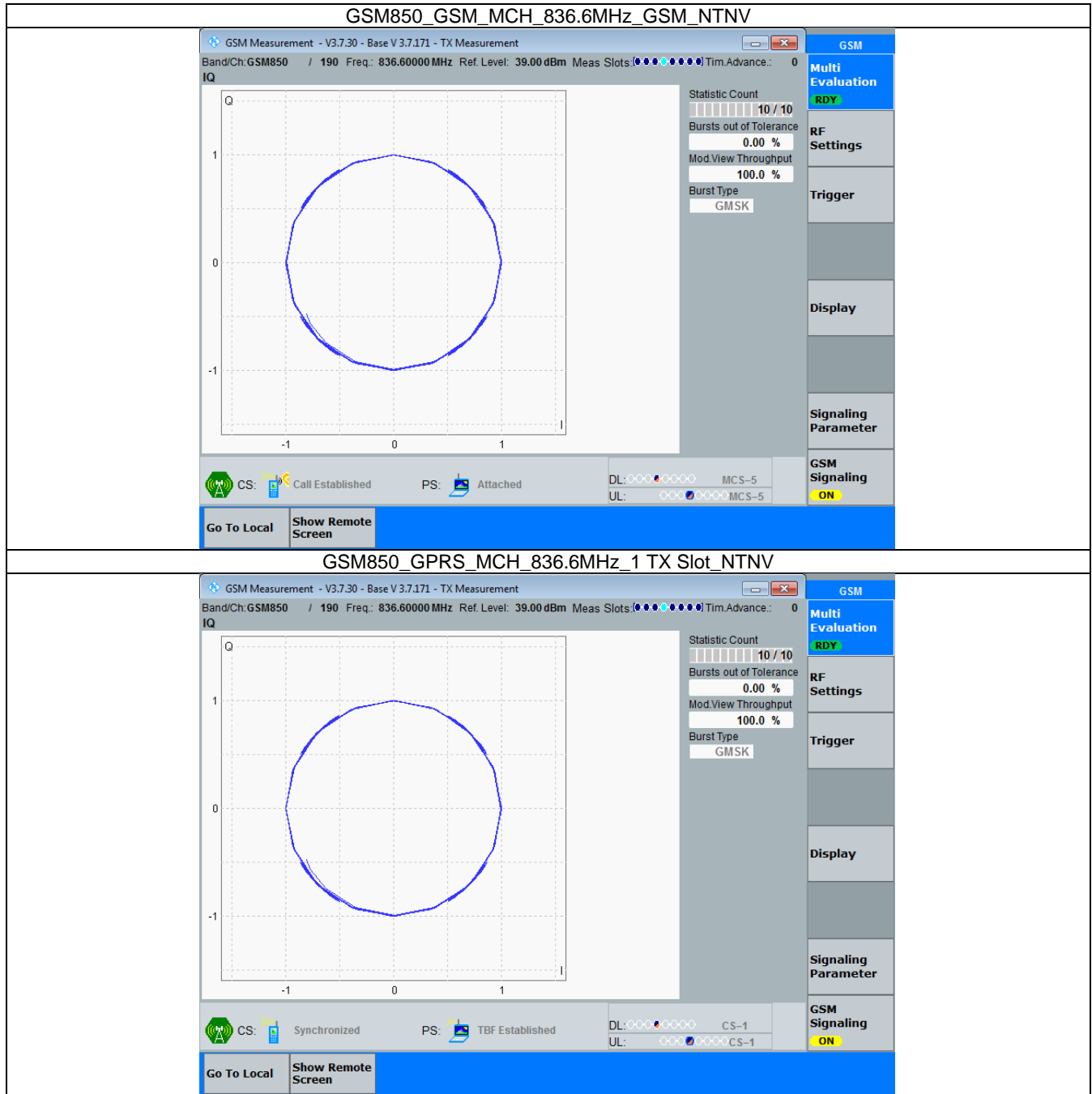
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## 3.1.2 Test Graph

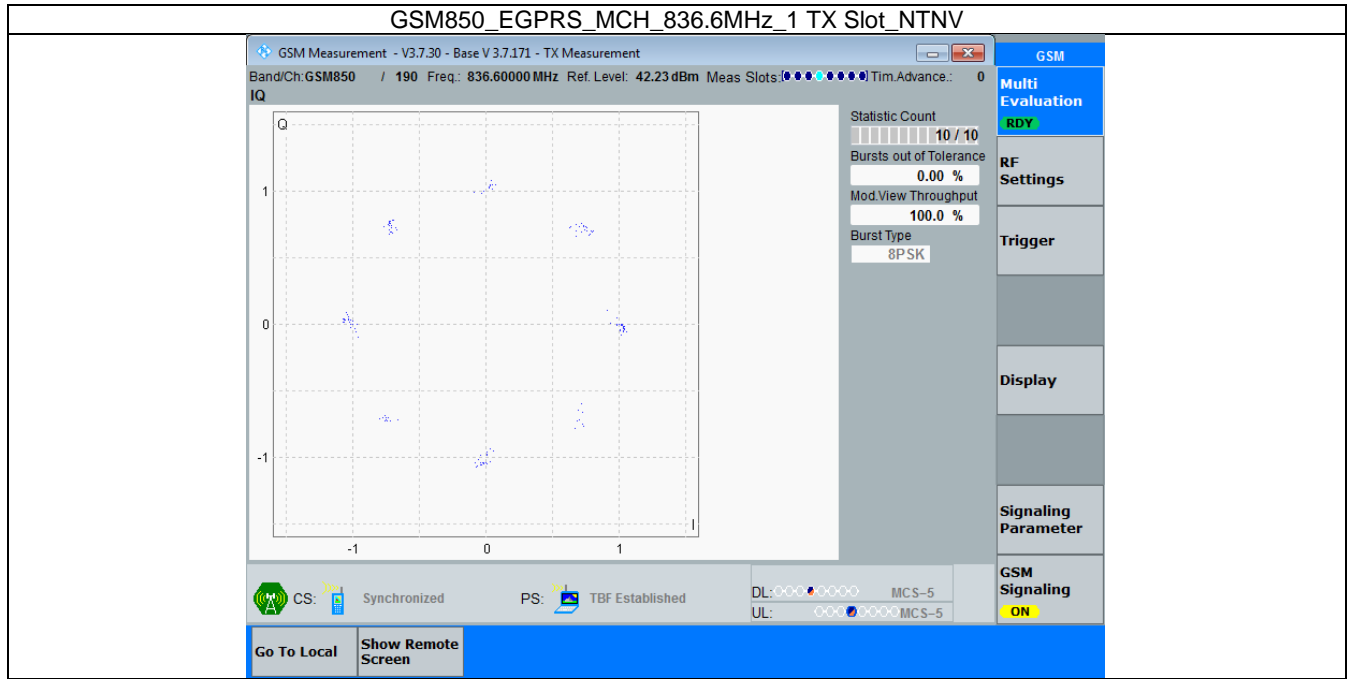


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## 4. 99% & 26dB Bandwidth

### 4.1 GSM850\_OBW

#### 4.1.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.247	Pass
			836.6	0.247	Pass
			848.8	0.243	Pass
	GPRS	1 TX Slot	824.2	0.241	Pass
			836.6	0.243	Pass
			848.8	0.247	Pass
	EGPRS	1 TX Slot	824.2	0.247	Pass
			836.6	0.240	Pass
			848.8	0.254	Pass



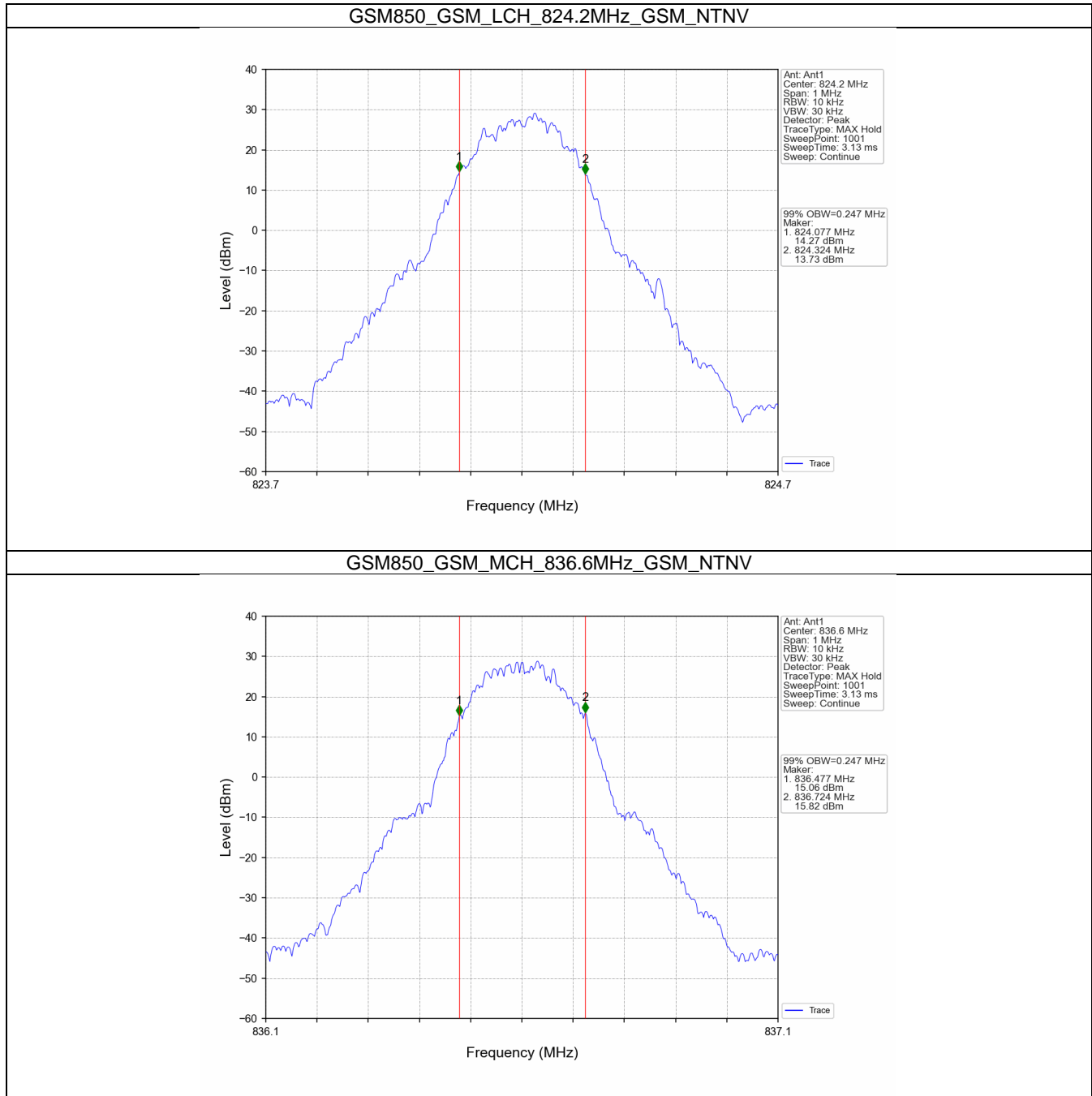
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4.1.2 Test Graph



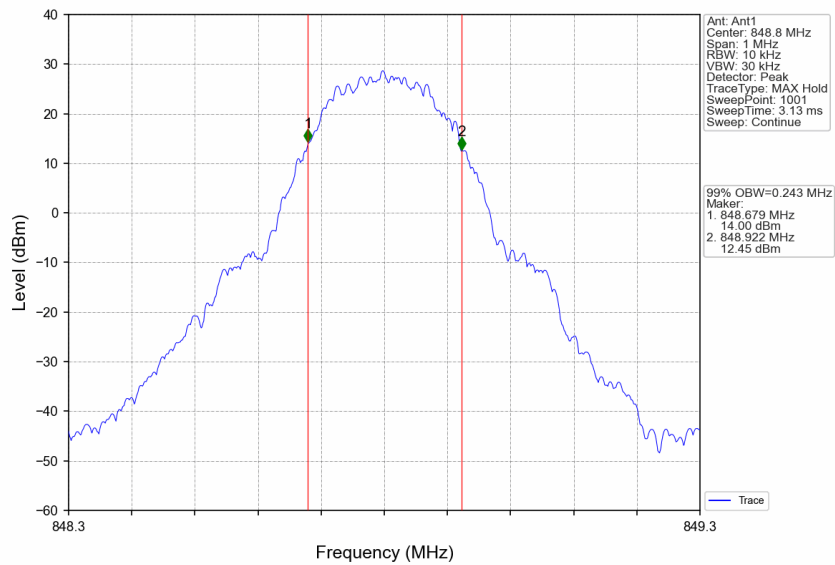
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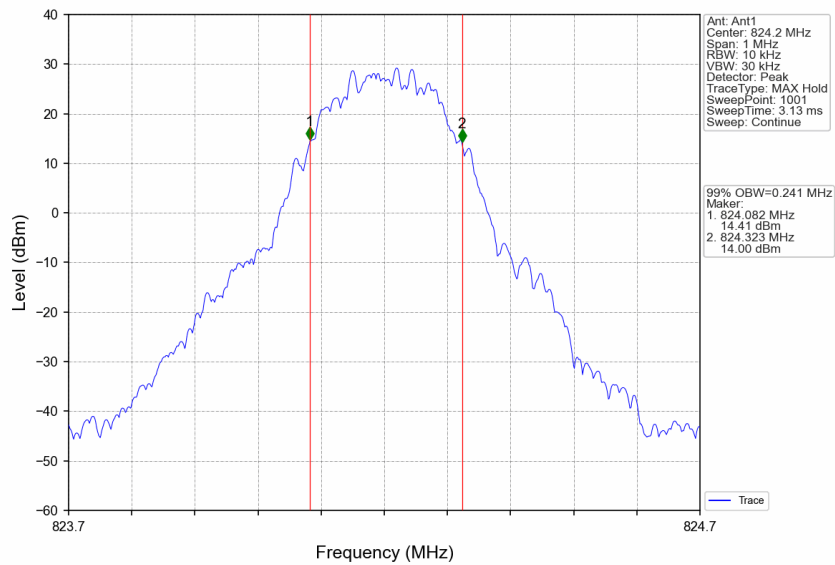
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



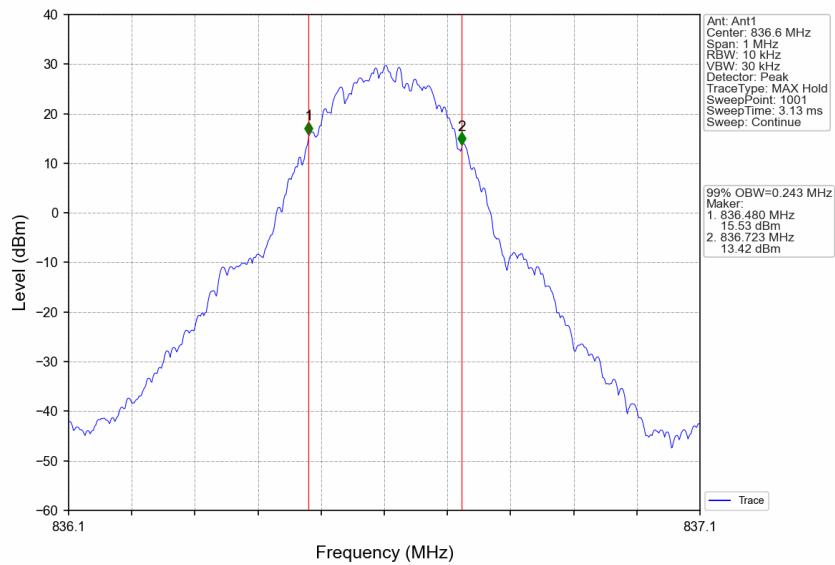
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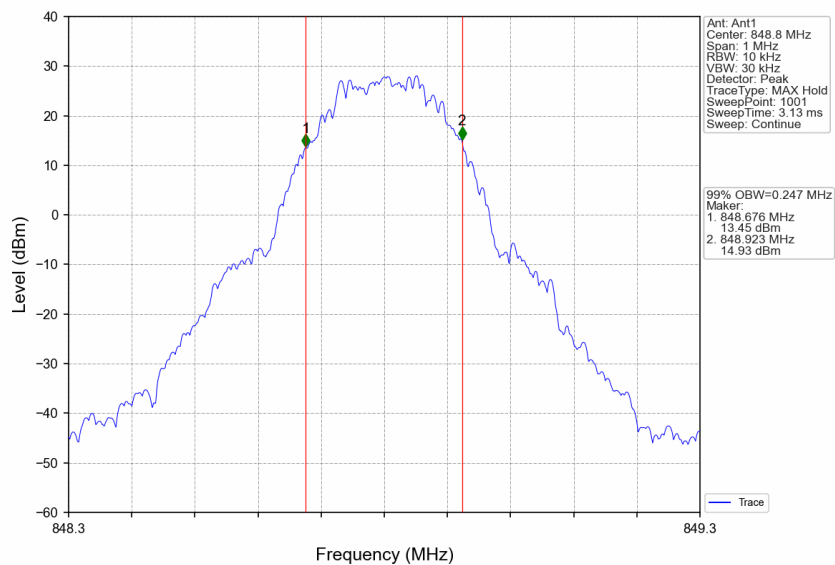
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GSM850\_GPRS\_HCH\_848.8MHz\_1 TX Slot\_NTNV



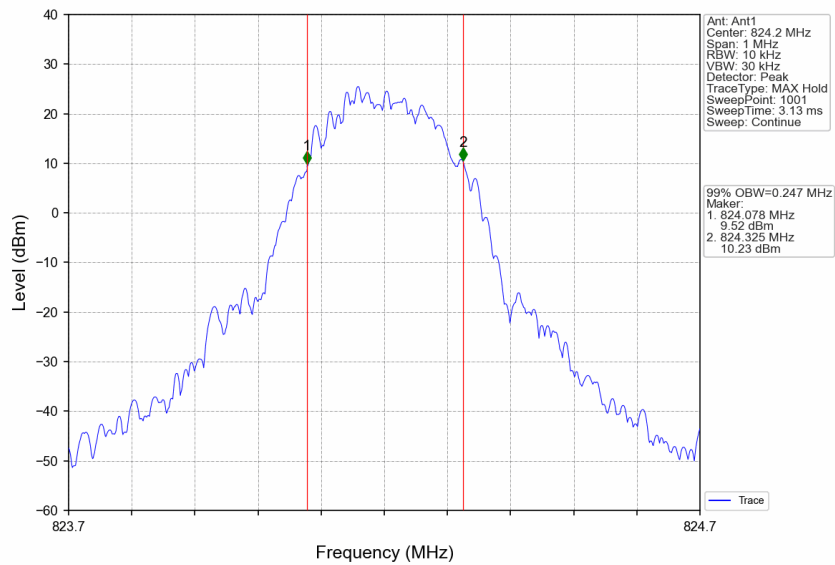
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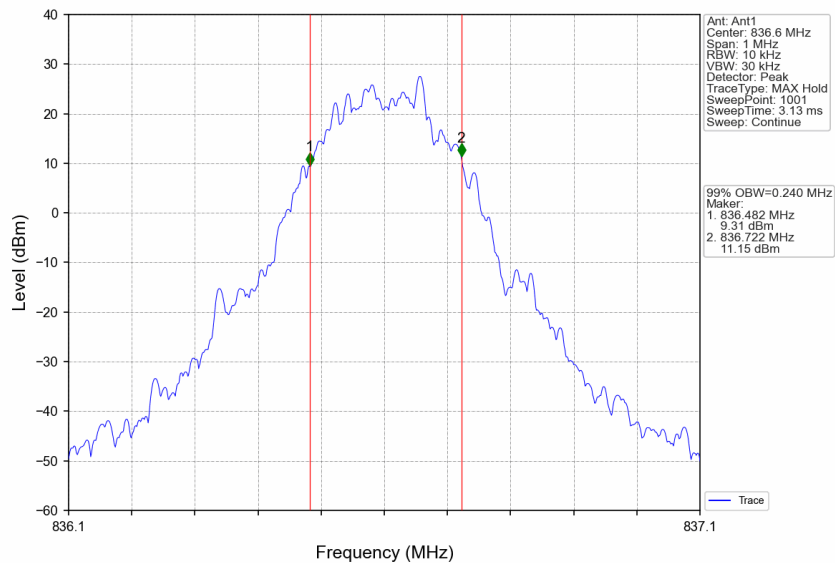
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GSM850\_EGPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



GSM850\_EGPRS\_MCH\_836.6MHz\_1 TX Slot\_NTNV

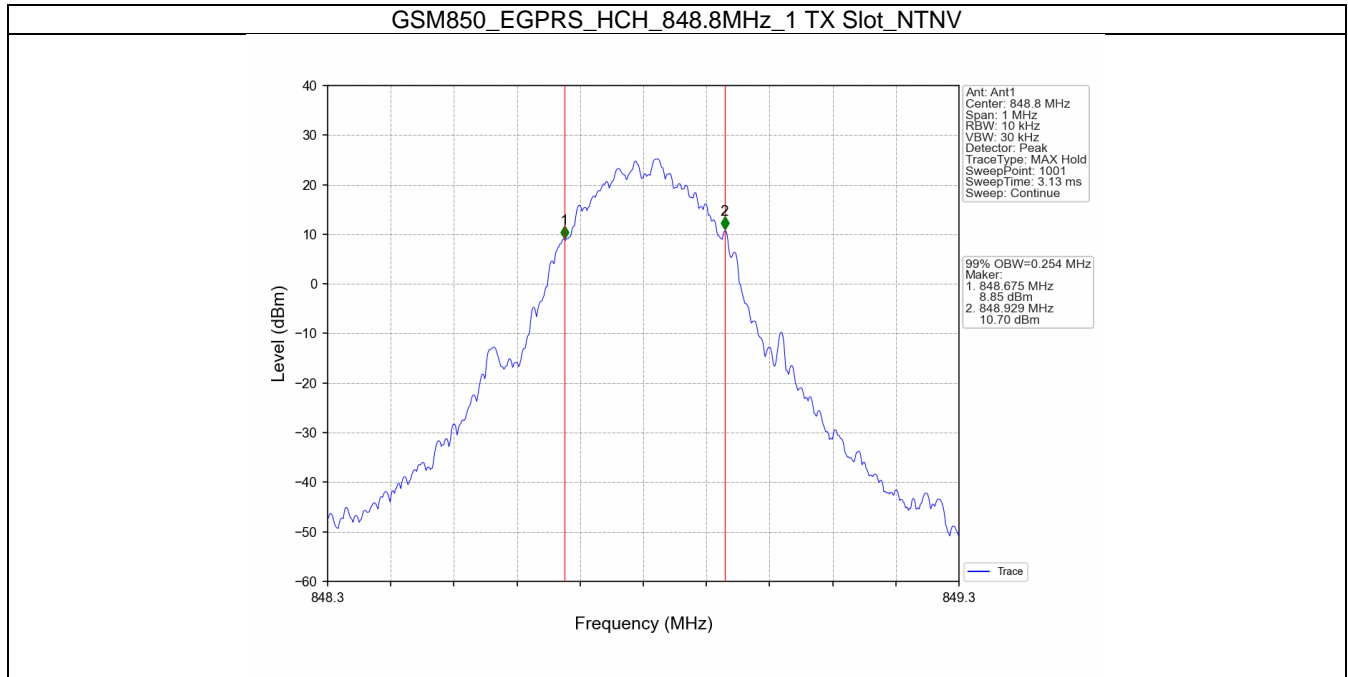


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4.2 GSM850\_XDB

4.2.1 Test Result

Band: GSM850					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	824.2	0.316	Pass
			836.6	0.317	Pass
			848.8	0.323	Pass
	GPRS	1 TX Slot	824.2	0.310	Pass
			836.6	0.317	Pass
			848.8	0.324	Pass
	EGPRS	1 TX Slot	824.2	0.310	Pass
			836.6	0.299	Pass
			848.8	0.310	Pass



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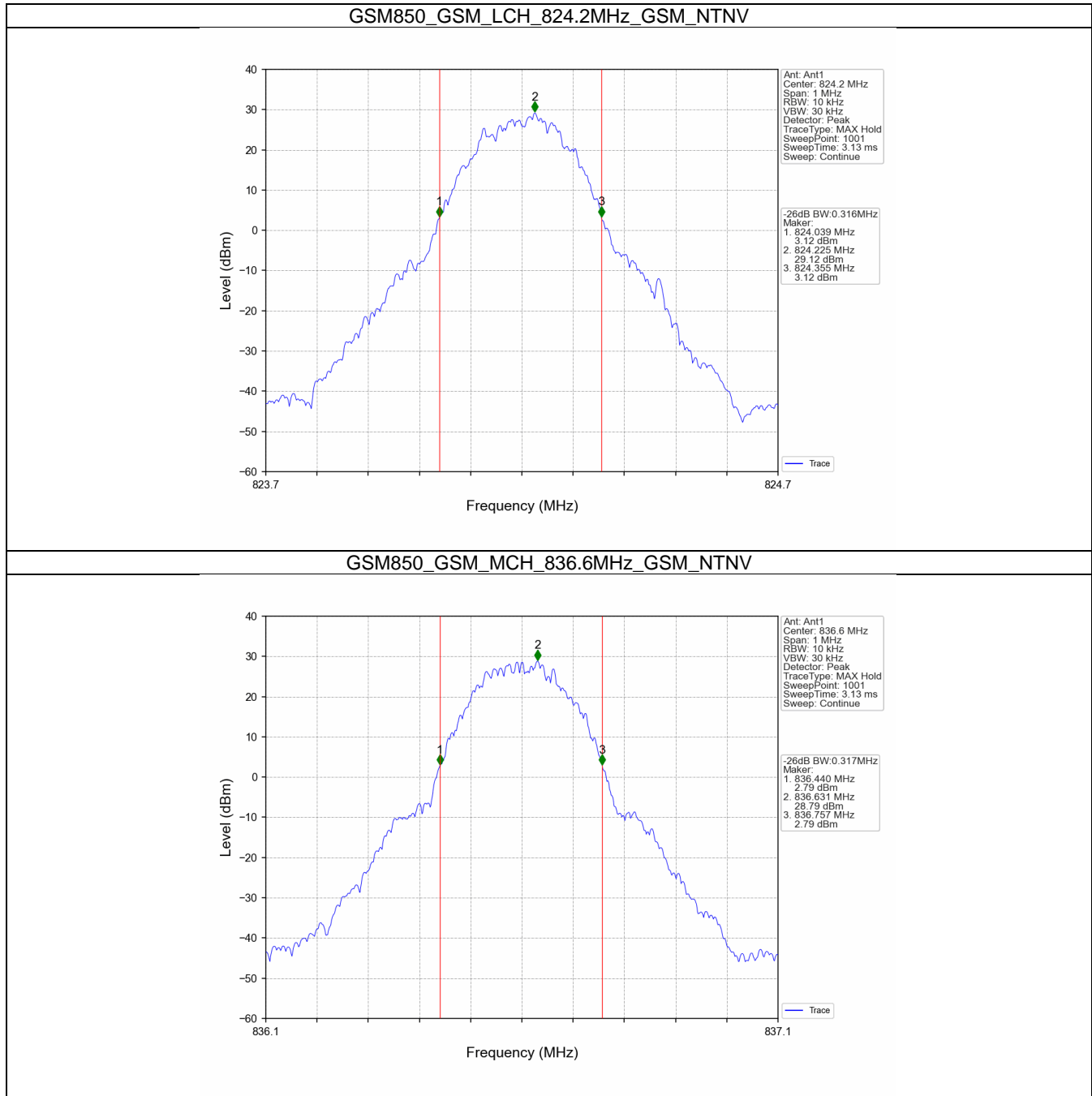
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4.2.2 Test Graph



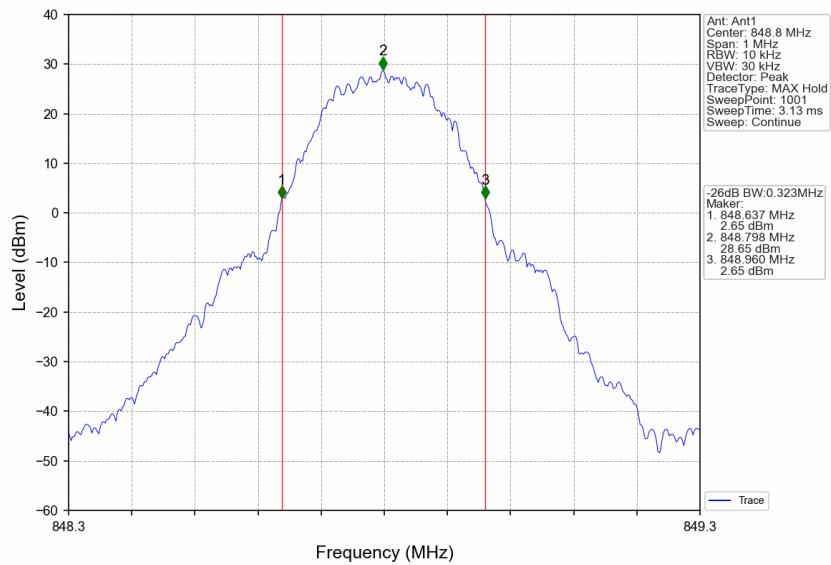
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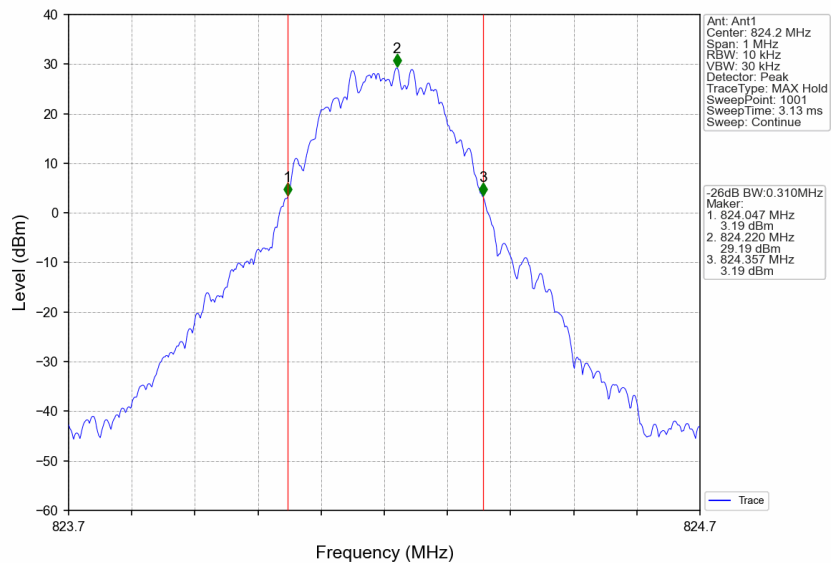
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GSM850\_GPRS\_LCH\_824.2MHz\_1 TX Slot\_NTNV



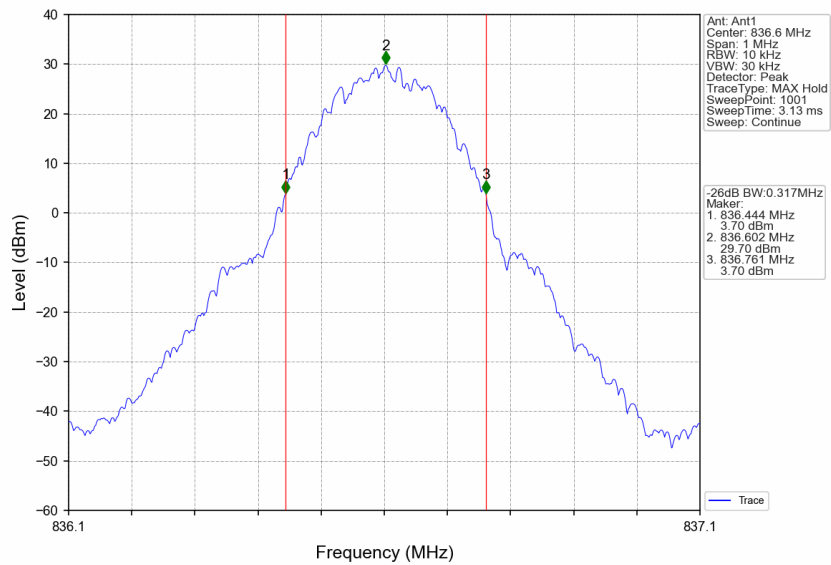
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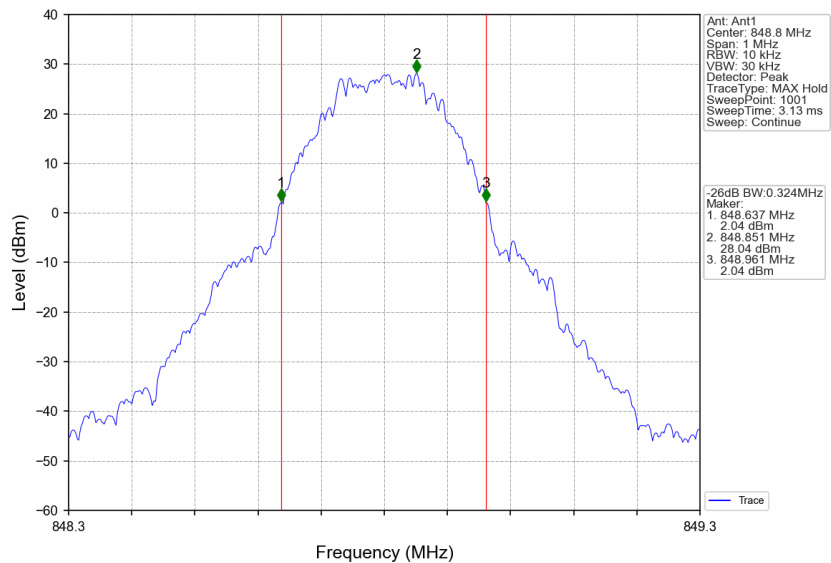
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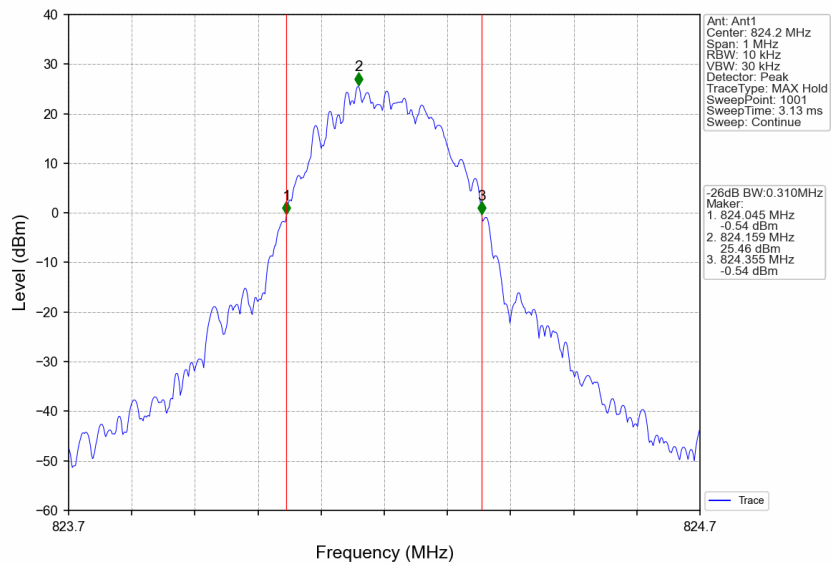
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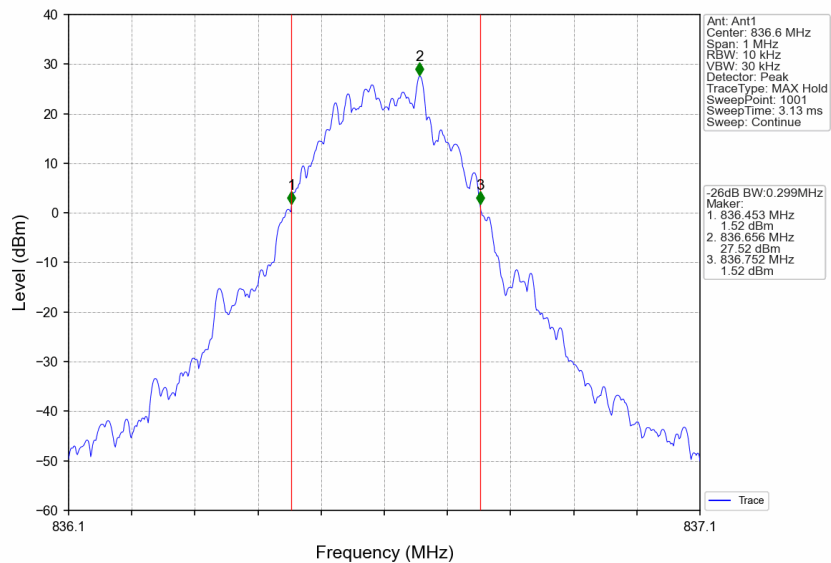
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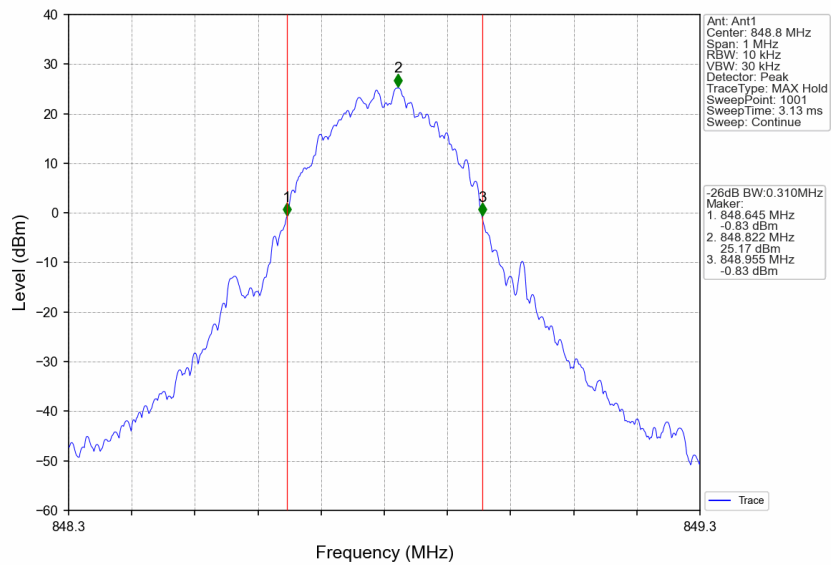
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## 5. Peak-Average Ratio

### 5.1 GSM850

#### 5.1.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.39	<=13	Pass
			836.6	9.45	<=13	Pass
			848.8	9.44	<=13	Pass
	GPRS	4 TX Slots	824.2	9.65	<=13	Pass
			836.6	3.65	<=13	Pass
			848.8	3.59	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.41	<=13	Pass
			836.6	10.16	<=13	Pass
			848.8	10.06	<=13	Pass



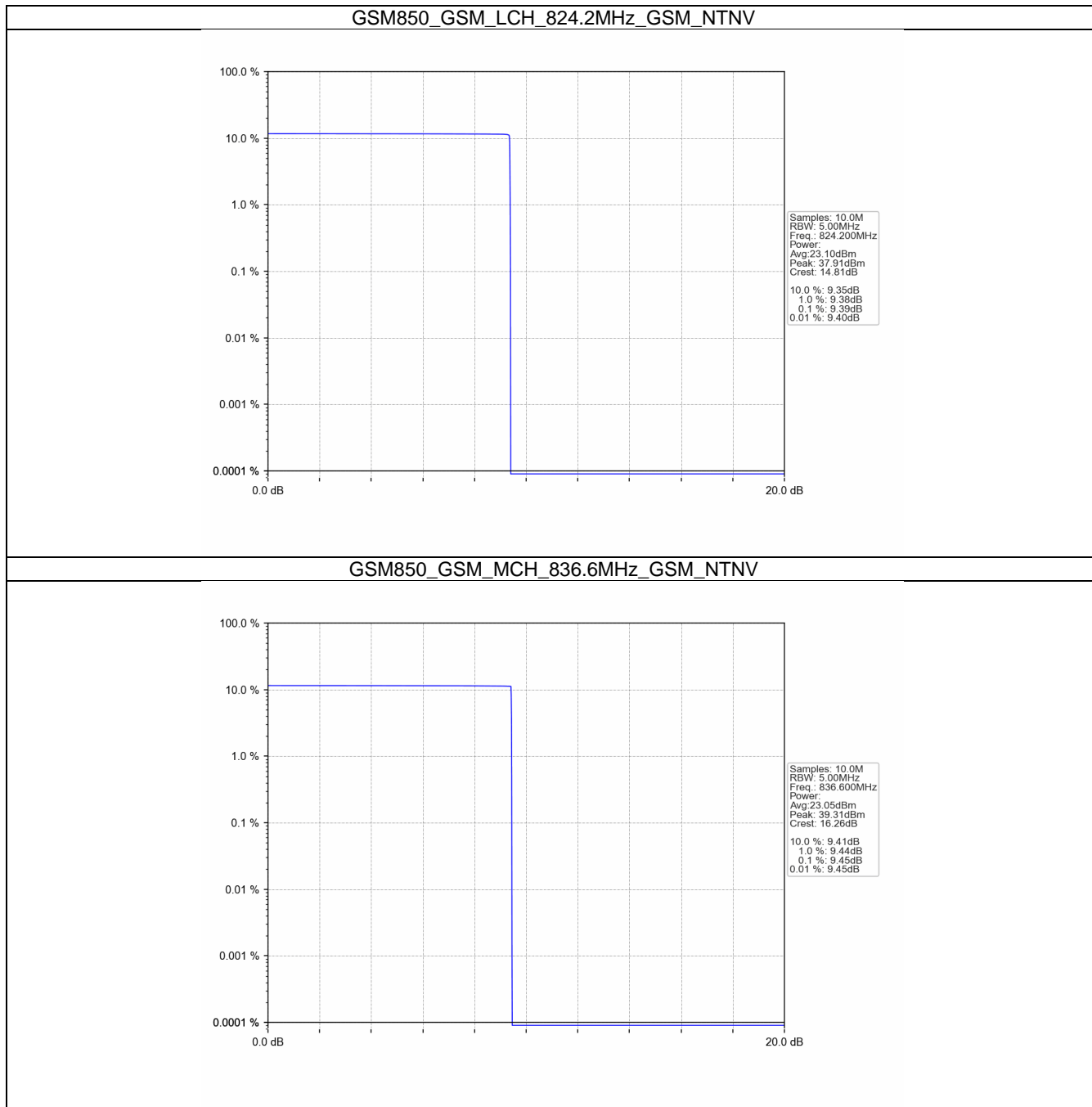
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5.1.2 Test Graph

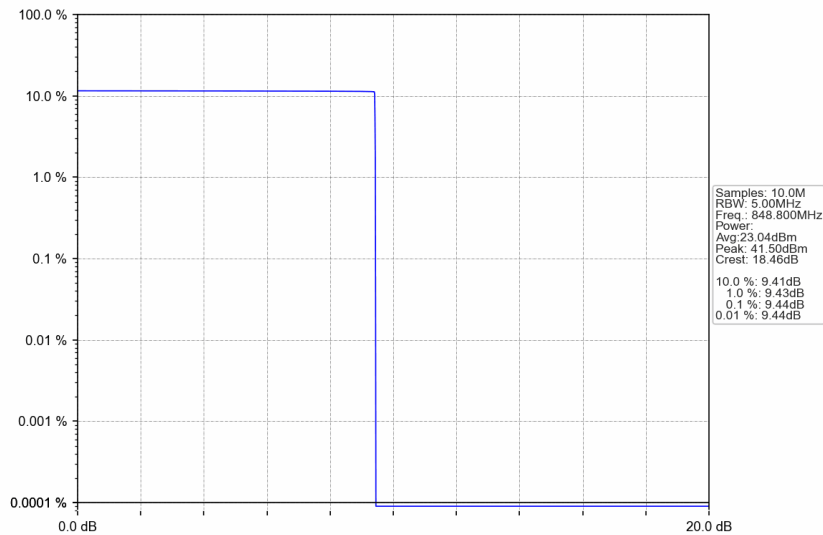


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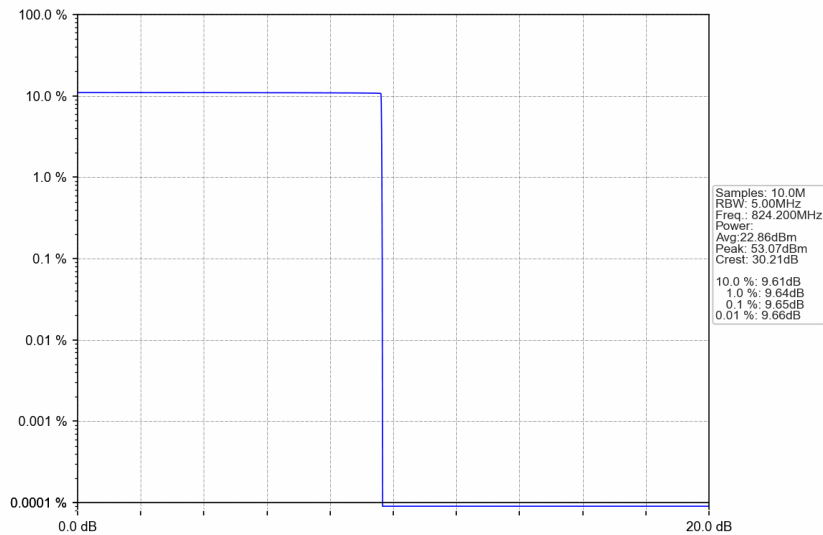
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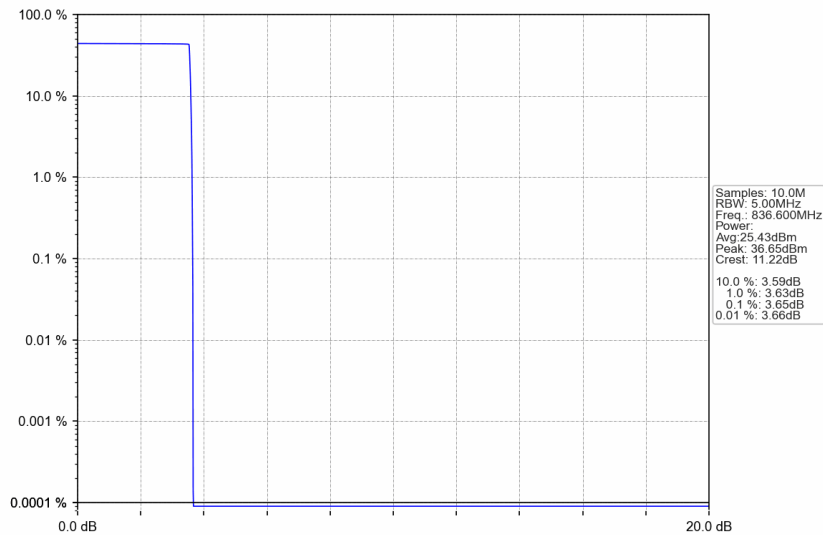
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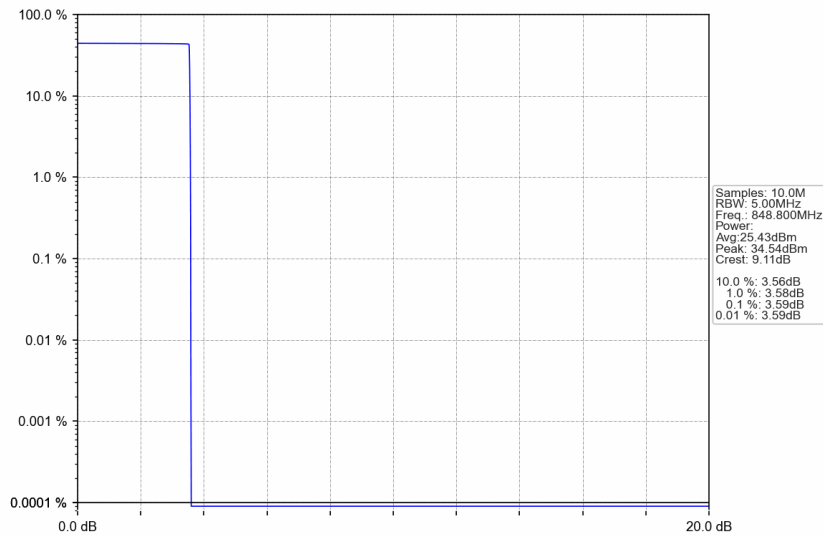
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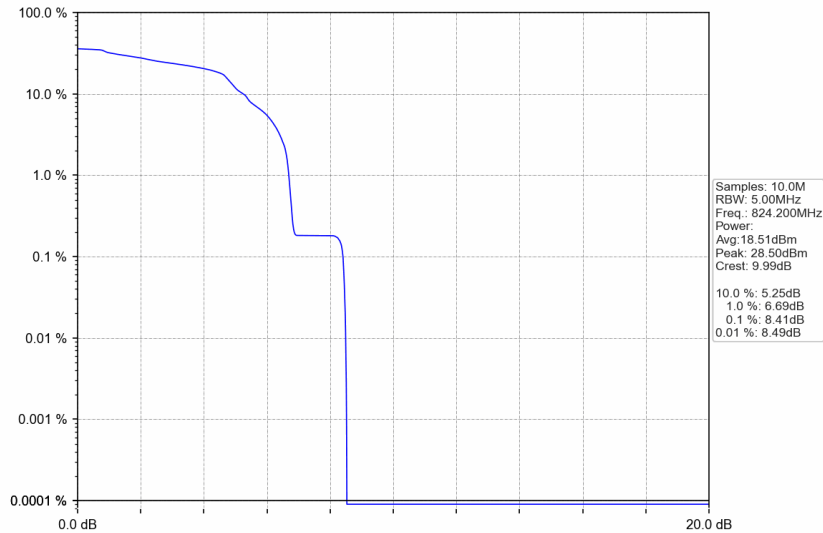
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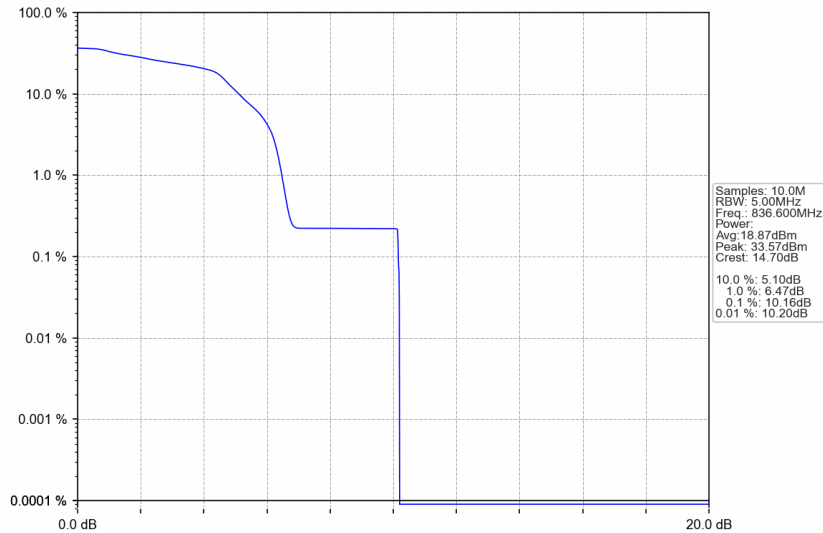
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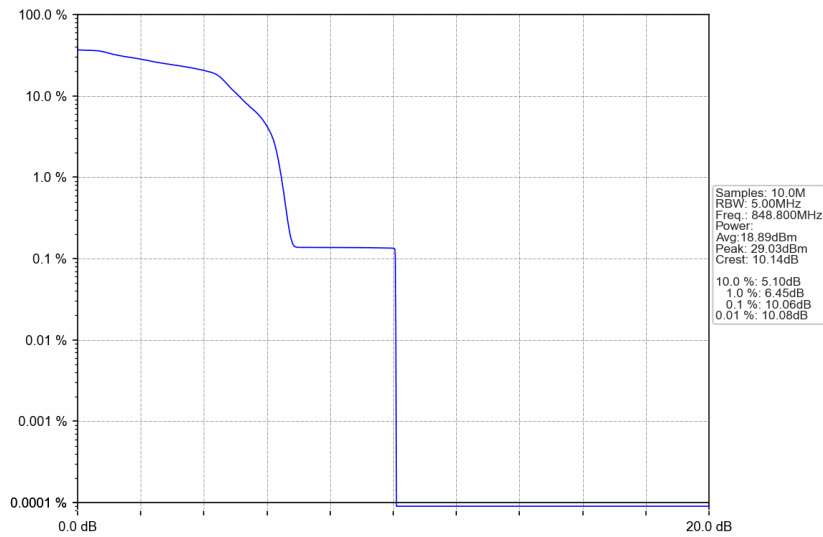
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## 6. Spurious Emission

### 6.1 GSM850

#### 6.1.1 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



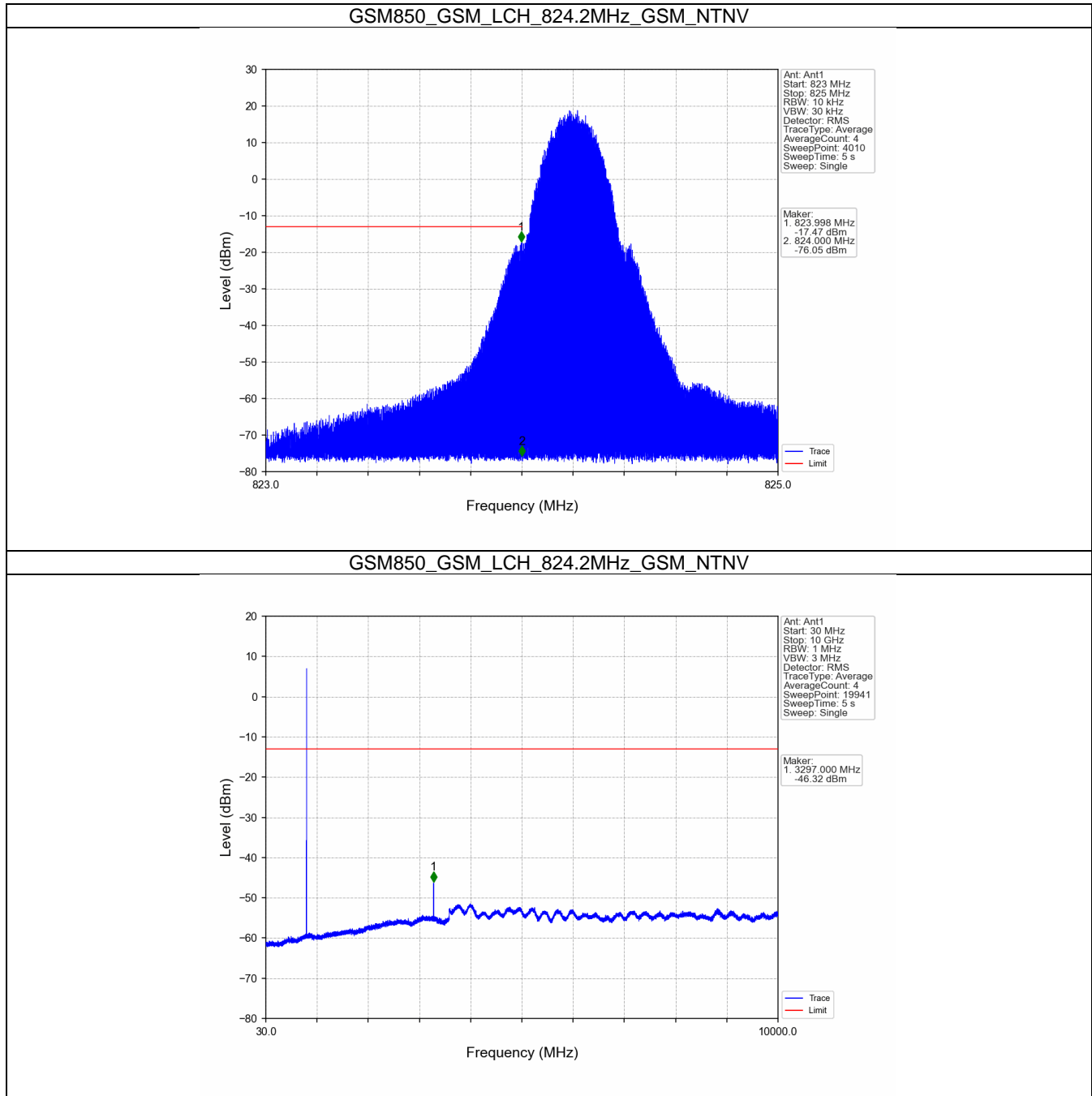
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6.1.2 Test Graph

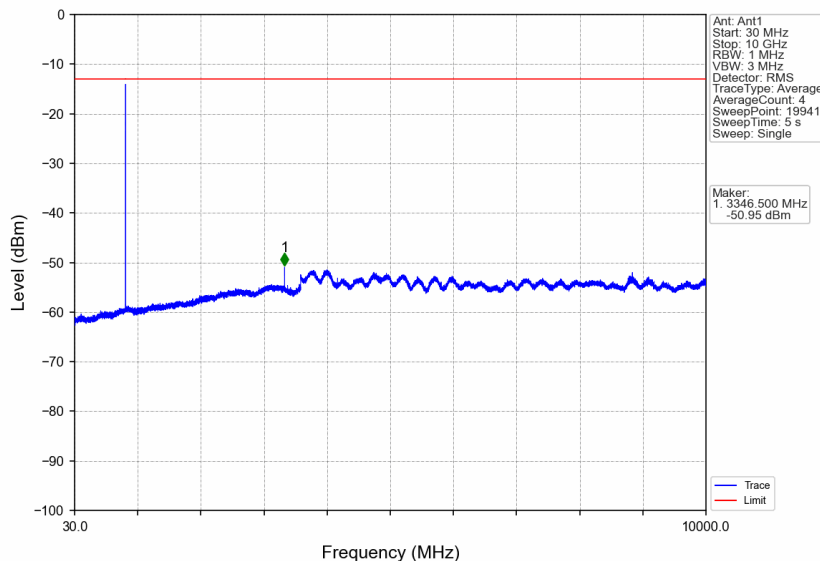


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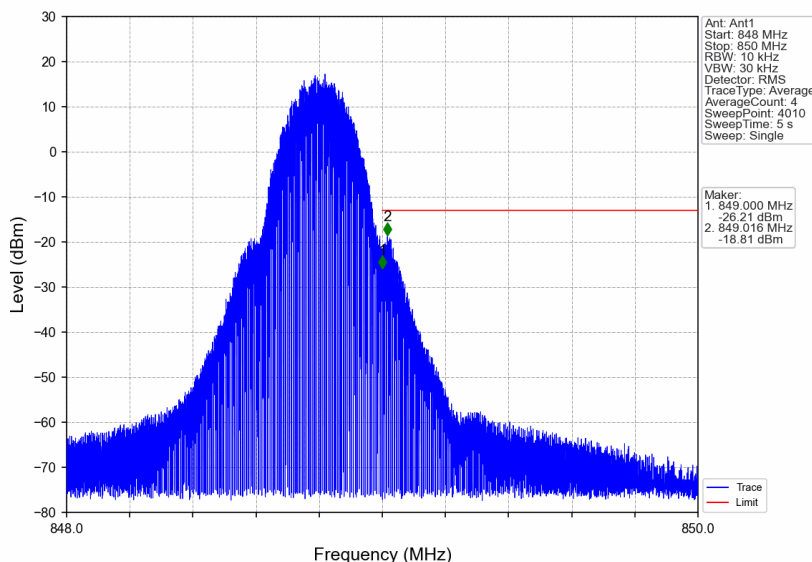
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GSM850\_GSM\_HCH\_848.8MHz\_GSM\_NTNV



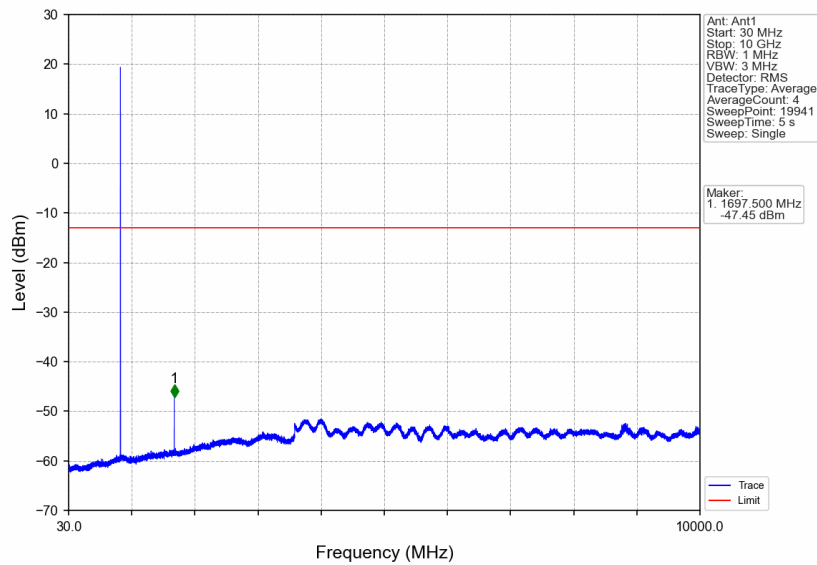
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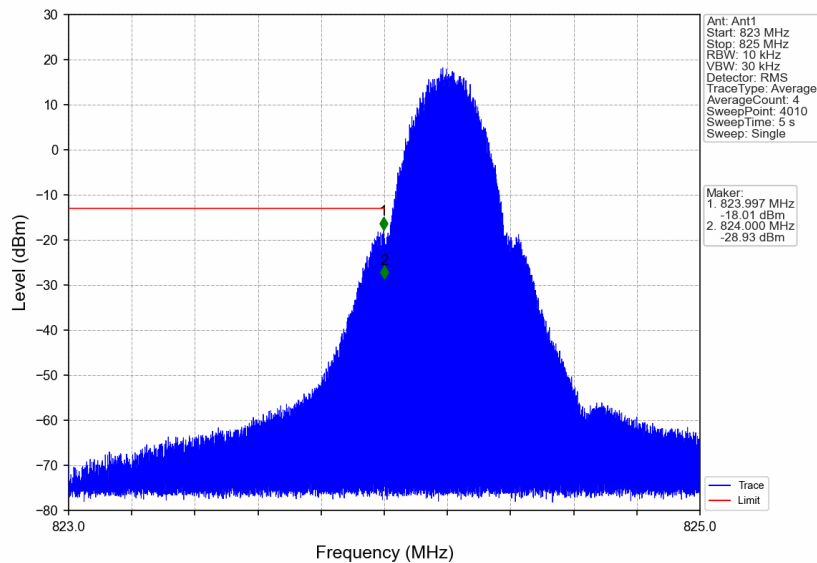
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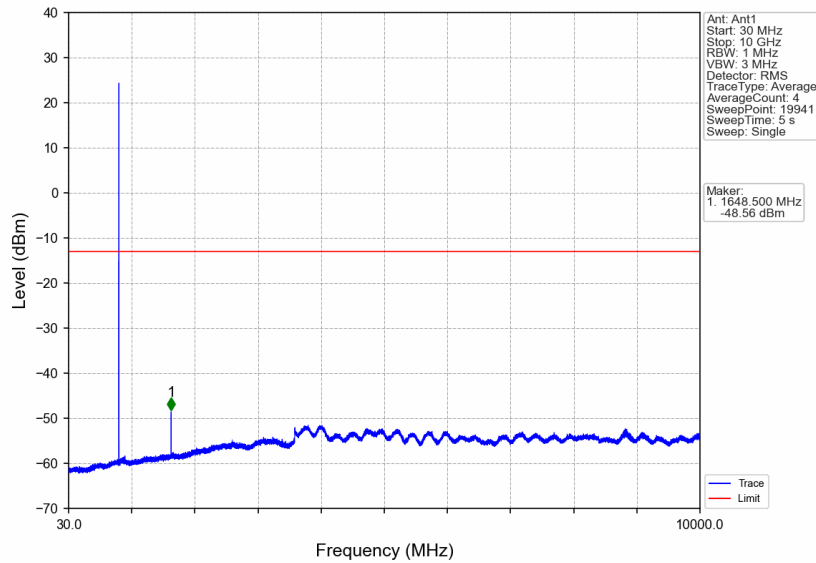
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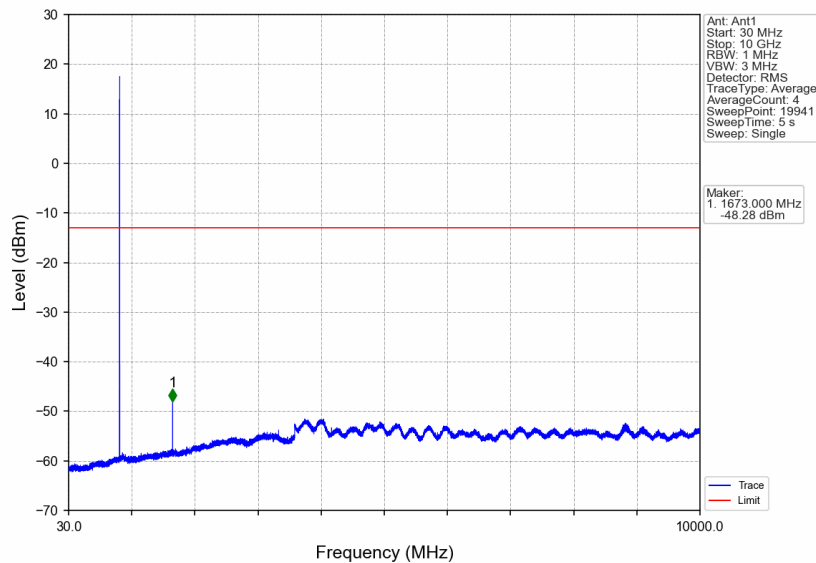
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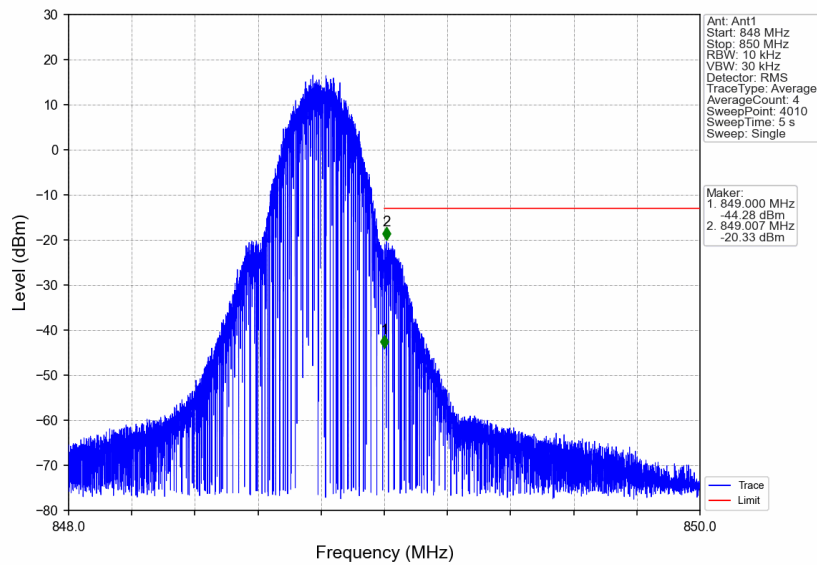
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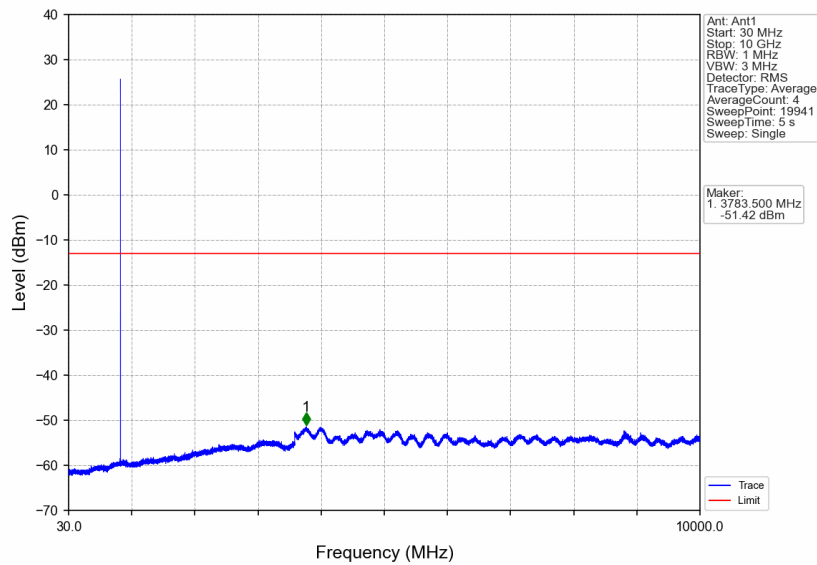
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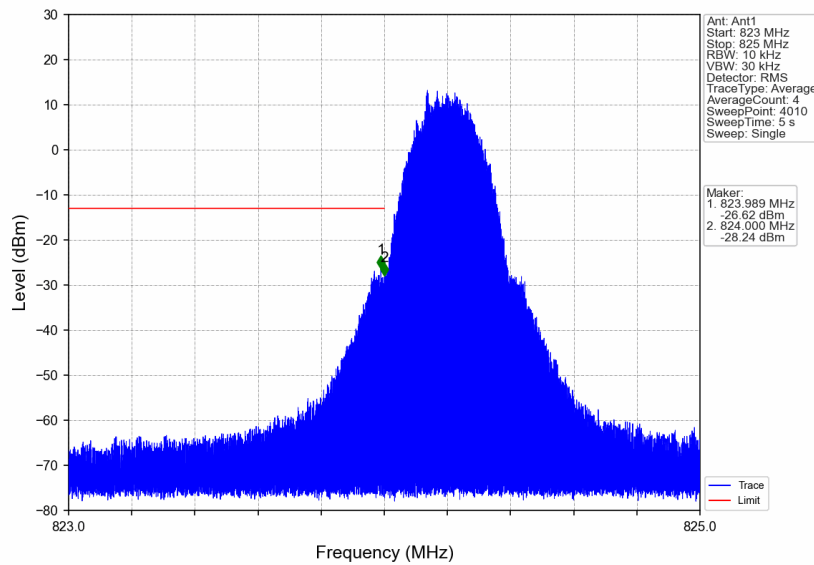


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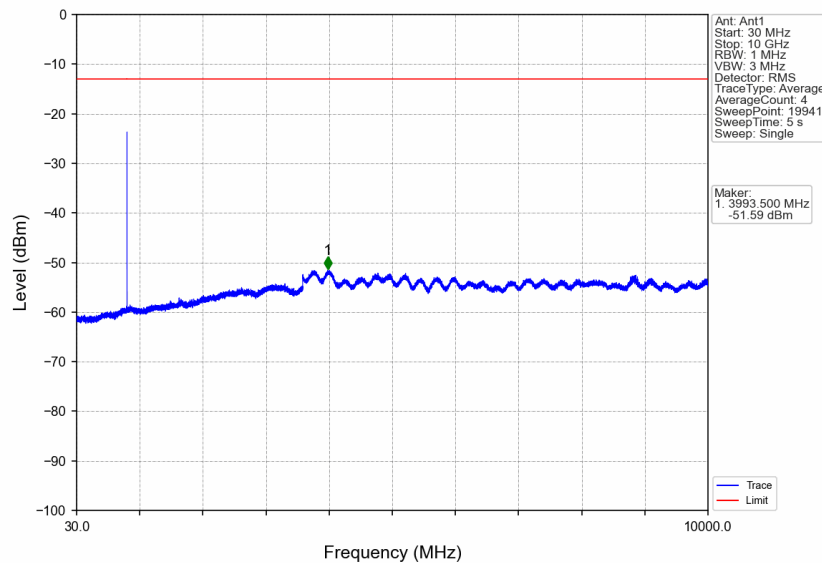
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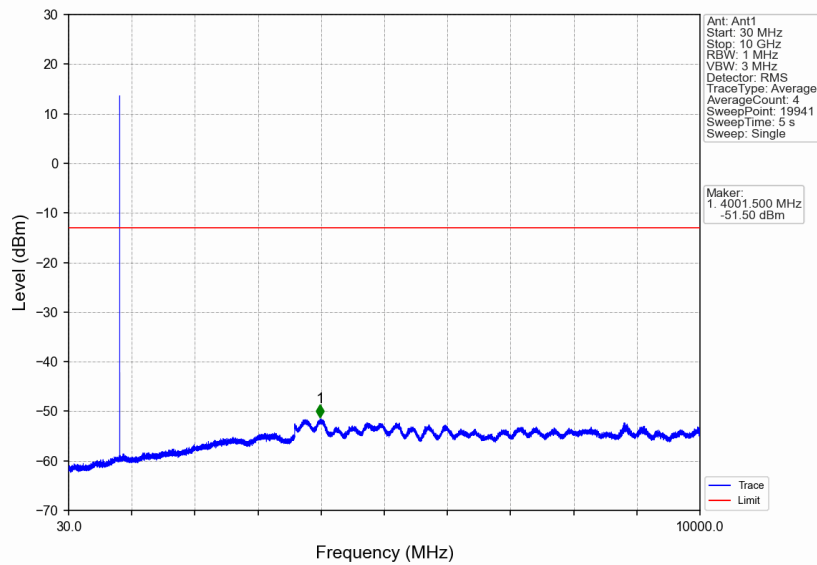
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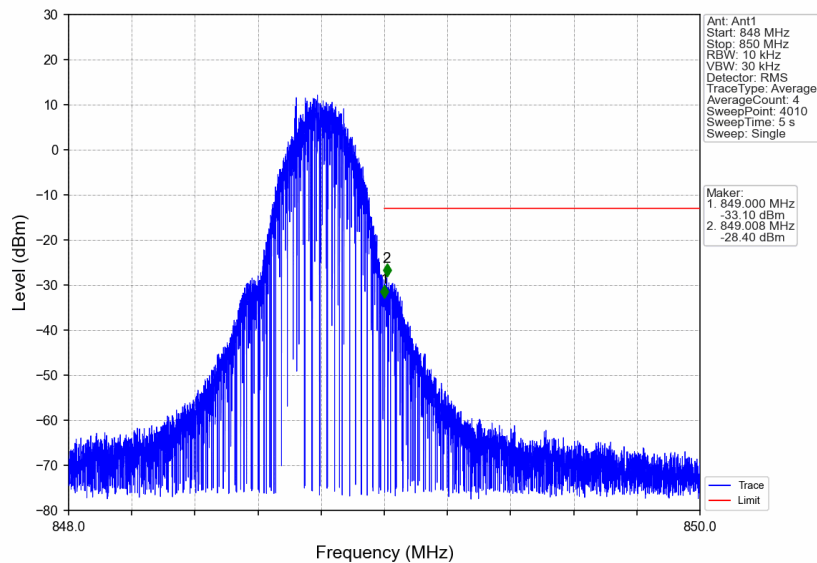
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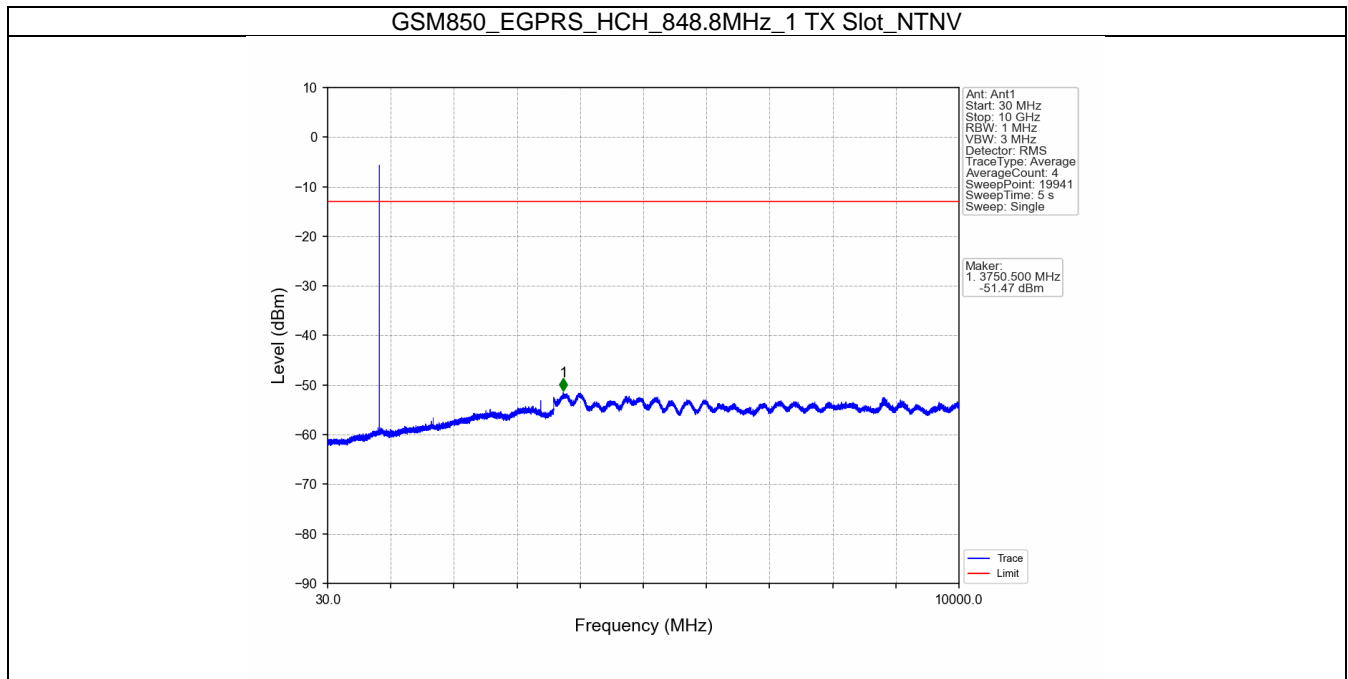
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