

Report No.: SEWM2311000454RG01

Rev.: 01

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Appendix B.1

GSM 850



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1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP ANT1

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	32.04	-4.60	25.29	<=38.45	Pass
			836.6	32.11	-4.60	25.36	<=38.45	Pass
			848.8	31.92	-4.60	25.17	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	25.93	-4.60	19.18	<=38.45	Pass
		2 TX Slots	824.2	25.88	-4.60	19.13	<=38.45	Pass
		3 TX Slots	824.2	24.3	-4.60	17.55	<=38.45	Pass
		4 TX Slots	824.2	22.43	-4.60	15.68	<=38.45	Pass
		1 TX Slot	836.6	26.29	-4.60	19.54	<=38.45	Pass
		2 TX Slots	836.6	23.43	-4.60	16.68	<=38.45	Pass
		3 TX Slots	836.6	21.7	-4.60	14.95	<=38.45	Pass
		4 TX Slots	836.6	20.26	-4.60	13.51	<=38.45	Pass
		1 TX Slot	848.8	25.91	-4.60	19.16	<=38.45	Pass
		2 TX Slots	848.8	23.44	-4.60	16.69	<=38.45	Pass
		3 TX Slots	848.8	21.56	-4.60	14.81	<=38.45	Pass
		4 TX Slots	848.8	20.14	-4.60	13.39	<=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	3.5	31.640	0.0384	-2.5 to 2.5	Pass		
			3.91	20.993	0.0255	-2.5 to 2.5	Pass		
			4.35	24.129	0.0293	-2.5 to 2.5	Pass		
		-30	3.91	27.959	0.0339	-2.5 to 2.5	Pass		
		-20	3.91	21.752	0.0264	-2.5 to 2.5	Pass		
		-10	3.91	26.056	0.0316	-2.5 to 2.5	Pass		
		0	3.91	23.941	0.0290	-2.5 to 2.5	Pass		
		10	3.91	26.883	0.0326	-2.5 to 2.5	Pass		
		30	3.91	24.405	0.0296	-2.5 to 2.5	Pass		
		40	3.91	26.679	0.0324	-2.5 to 2.5	Pass		
		50	3.91	24.969	0.0303	-2.5 to 2.5	Pass		
		836.6	20	3.5	25.037	0.0299	-2.5 to 2.5	Pass	
				3.91	22.441	0.0268	-2.5 to 2.5	Pass	
				4.35	23.116	0.0276	-2.5 to 2.5	Pass	
			-30	3.91	20.661	0.0247	-2.5 to 2.5	Pass	
	-20		3.91	21.822	0.0261	-2.5 to 2.5	Pass		
	-10		3.91	22.626	0.0270	-2.5 to 2.5	Pass		
	0		3.91	22.518	0.0269	-2.5 to 2.5	Pass		
	10		3.91	22.502	0.0269	-2.5 to 2.5	Pass		
	30		3.91	22.135	0.0265	-2.5 to 2.5	Pass		
	40		3.91	19.763	0.0236	-2.5 to 2.5	Pass		
	50		3.91	20.634	0.0247	-2.5 to 2.5	Pass		
	848.8		20	3.5	23.975	0.0282	-2.5 to 2.5	Pass	
				3.91	27.116	0.0319	-2.5 to 2.5	Pass	
				4.35	26.774	0.0315	-2.5 to 2.5	Pass	
			-30	3.91	23.193	0.0273	-2.5 to 2.5	Pass	
		-20	3.91	22.698	0.0267	-2.5 to 2.5	Pass		
		-10	3.91	28.531	0.0336	-2.5 to 2.5	Pass		
		0	3.91	24.438	0.0288	-2.5 to 2.5	Pass		
		10	3.91	23.385	0.0276	-2.5 to 2.5	Pass		
		30	3.91	24.492	0.0289	-2.5 to 2.5	Pass		
		40	3.91	23.470	0.0277	-2.5 to 2.5	Pass		
		50	3.91	25.120	0.0296	-2.5 to 2.5	Pass		
		EGPRS	824.2	20	3.5	25.066	0.0304	-2.5 to 2.5	Pass
					3.91	24.481	0.0297	-2.5 to 2.5	Pass
					4.35	27.076	0.0329	-2.5 to 2.5	Pass
				-30	3.91	30.431	0.0369	-2.5 to 2.5	Pass
	-20			3.91	30.131	0.0366	-2.5 to 2.5	Pass	



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	836.6	-10	3.91	39.141	0.0475	-2.5 to 2.5	Pass	
		0	3.91	35.702	0.0433	-2.5 to 2.5	Pass	
		10	3.91	35.369	0.0429	-2.5 to 2.5	Pass	
		30	3.91	35.923	0.0436	-2.5 to 2.5	Pass	
		40	3.91	38.856	0.0471	-2.5 to 2.5	Pass	
		50	3.91	37.687	0.0457	-2.5 to 2.5	Pass	
	848.8	20	3.5	37.895	0.0453	-2.5 to 2.5	Pass	
			3.91	35.701	0.0427	-2.5 to 2.5	Pass	
			4.35	36.607	0.0438	-2.5 to 2.5	Pass	
		-30	3.91	37.243	0.0445	-2.5 to 2.5	Pass	
		-20	3.91	37.703	0.0451	-2.5 to 2.5	Pass	
		-10	3.91	35.922	0.0429	-2.5 to 2.5	Pass	
		0	3.91	37.025	0.0443	-2.5 to 2.5	Pass	
		10	3.91	35.559	0.0425	-2.5 to 2.5	Pass	
		30	3.91	33.178	0.0397	-2.5 to 2.5	Pass	
		40	3.91	34.606	0.0414	-2.5 to 2.5	Pass	
		50	3.91	34.354	0.0411	-2.5 to 2.5	Pass	
		848.8	20	3.5	34.806	0.0410	-2.5 to 2.5	Pass
				3.91	34.754	0.0409	-2.5 to 2.5	Pass
				4.35	32.854	0.0387	-2.5 to 2.5	Pass
-30	3.91		31.507	0.0371	-2.5 to 2.5	Pass		
-20	3.91		31.868	0.0375	-2.5 to 2.5	Pass		
-10	3.91		32.461	0.0382	-2.5 to 2.5	Pass		
0	3.91		32.568	0.0384	-2.5 to 2.5	Pass		
10	3.91		31.520	0.0371	-2.5 to 2.5	Pass		
30	3.91		34.009	0.0401	-2.5 to 2.5	Pass		
		40	3.91	32.865	0.0387	-2.5 to 2.5	Pass	
		50	3.91	31.883	0.0376	-2.5 to 2.5	Pass	



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3. Field Strength of Spurious Radiation

Test Band = GSM 850_ TM1

Test Channel = Low Channel_ Worse ANT

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2472.4444	62.17	-49.06	27.27	-54.88	-13.00	41.88	Horizontal
2	1648.4	67.07	-49.83	25.29	-52.72	-13.00	39.72	Horizontal
3	3296.8	45.08	-48.63	28.62	-70.19	-13.00	57.19	Horizontal
4	4121	44.23	-48.28	29.62	-69.69	-13.00	56.69	Horizontal
5	4945.2	44.17	-48.07	31.37	-67.80	-13.00	54.80	Horizontal
6	5769.4	45.09	-47.65	32.75	-65.07	-13.00	52.07	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4444	58.68	-49.83	25.29	-61.11	-13.00	48.11	Vertical
2	2472.6	61.20	-49.06	27.27	-55.85	-13.00	52.85	Vertical
3	3296.8	45.39	-48.63	28.62	-69.88	-13.00	56.88	Vertical
4	4121	44.12	-48.28	29.62	-69.80	-13.00	56.80	Vertical
5	4945.2	44.22	-48.07	31.37	-67.75	-13.00	54.75	Vertical
6	5769.4	44.64	-47.65	32.75	-65.52	-13.00	52.52	Vertical



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Test Band = GSM 850_ TM1

Test Channel = Mid Channel_ Worse ANT

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	51.86	-49.78	25.39	-67.79	-13.00	59.79	Horizontal
2	2509.2	66.49	-48.93	27.32	-50.37	-13.00	57.37	Horizontal
3	3345.6	45.46	-48.66	28.64	-69.82	-13.00	56.82	Horizontal
4	4182	43.70	-48.34	29.73	-70.17	-13.00	57.17	Horizontal
5	5018.4	44.14	-47.95	31.54	-67.53	-13.00	54.53	Horizontal
6	5854.8	44.65	-47.33	32.77	-65.17	-13.00	52.17	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8	56.33	-49.78	25.39	-63.32	-13.00	60.32	Vertical
2	2509.2	62.52	-48.93	27.32	-54.34	-13.00	58.34	Vertical
3	3345.6	45.14	-48.66	28.64	-70.14	-13.00	57.14	Vertical
4	4182	43.77	-48.34	29.73	-70.10	-13.00	57.10	Vertical
5	5018.4	44.49	-47.95	31.54	-67.18	-13.00	54.18	Vertical
6	5854.8	44.51	-47.33	32.77	-65.31	-13.00	52.31	Vertical



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Test Band = GSM 850_ TM1
 Test Channel = High Channel_ Worse ANT

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	66.50	-49.72	25.49	-52.99	-13.00	59.99	Horizontal
2	2546.4	66.51	-49.03	27.41	-50.36	-13.00	57.36	Horizontal
3	3395.2	45.67	-48.69	28.66	-69.62	-13.00	56.62	Horizontal
4	4244	43.92	-48.21	29.84	-69.72	-13.00	56.72	Horizontal
5	5092.8	44.42	-47.92	31.72	-67.04	-13.00	54.04	Horizontal
6	5941.6	45.23	-47.26	32.79	-64.50	-13.00	51.50	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6	62.65	-49.72	25.49	-56.84	-13.00	59.98	Vertical
2	2546.4	64.24	-49.03	27.41	-52.63	-13.00	57.63	Vertical
3	3395.2	45.29	-48.69	28.66	-70.00	-13.00	57.00	Vertical
4	4244	44.74	-48.21	29.84	-68.90	-13.00	55.90	Vertical
5	5092.8	44.64	-47.92	31.72	-66.82	-13.00	53.82	Vertical
6	5941.6	44.91	-47.26	32.79	-64.82	-13.00	51.82	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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



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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	Limit	
NTNV	GSM	GSM	824.2	0.246	/	Pass
			836.6	0.243	/	Pass
			848.8	0.246	/	Pass
	EGPRS	1 TX Slot	824.2	0.250	/	Pass
			836.6	0.242	/	Pass
			848.8	0.244	/	Pass



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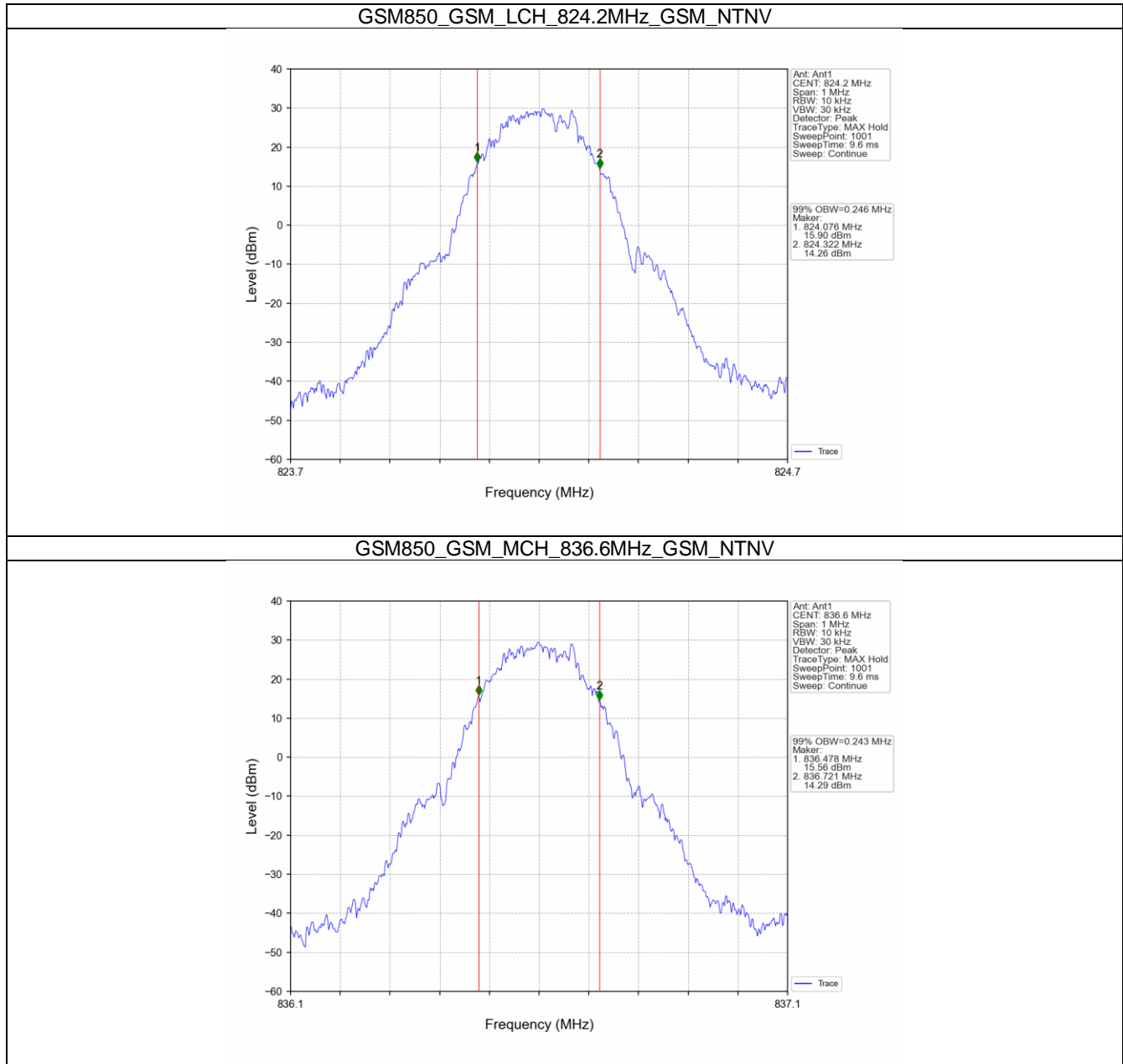
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3.1.2 Test Graph



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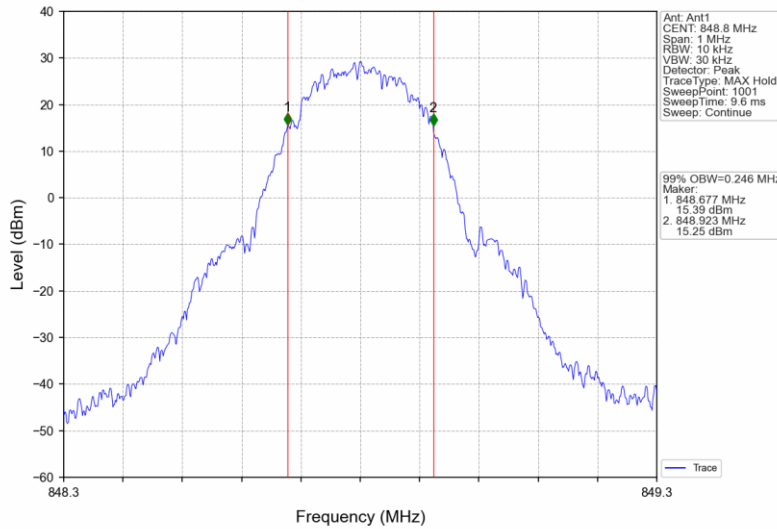
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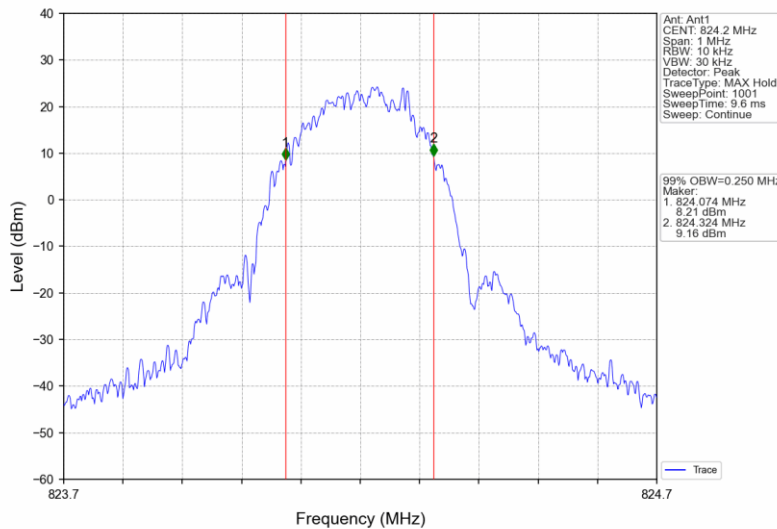
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



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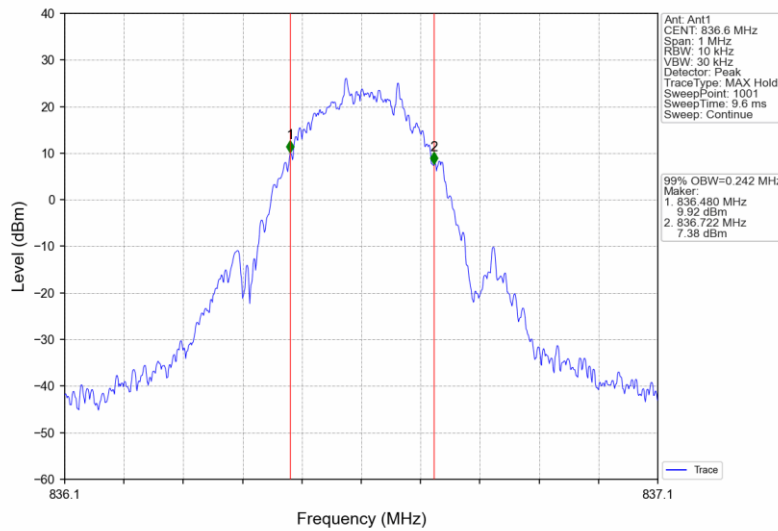
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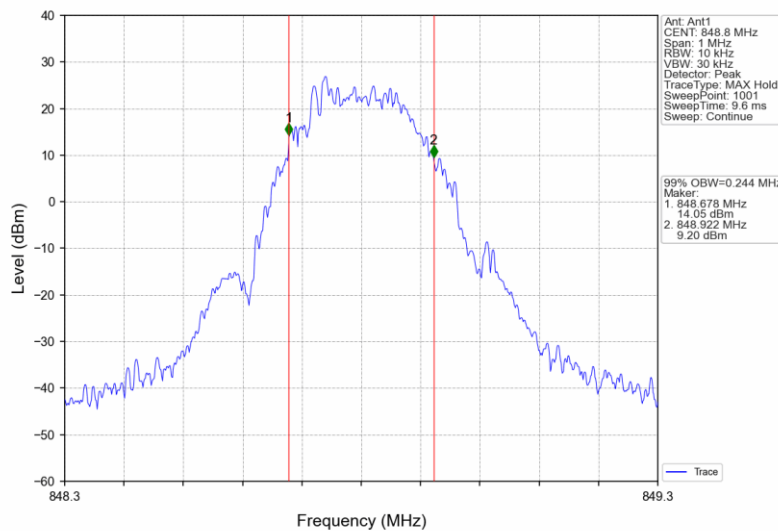
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4.2 GSM850_XDB

4.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.316	/	Pass
			836.6	0.315	/	Pass
			848.8	0.316	/	Pass
	EGPRS	1 TX Slot	824.2	0.319	/	Pass
			836.6	0.304	/	Pass
			848.8	0.313	/	Pass



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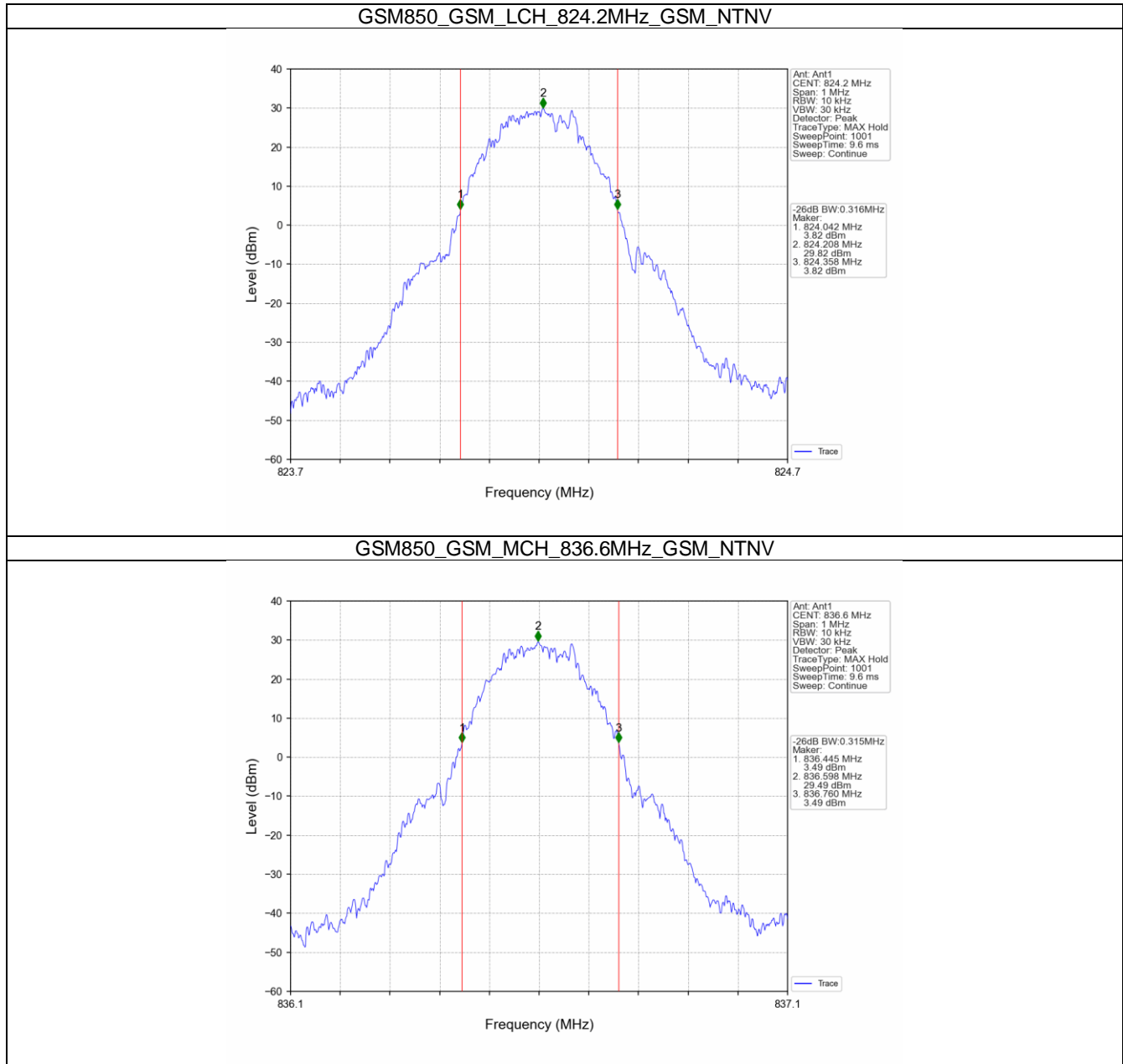
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3.2.2 Test Graph



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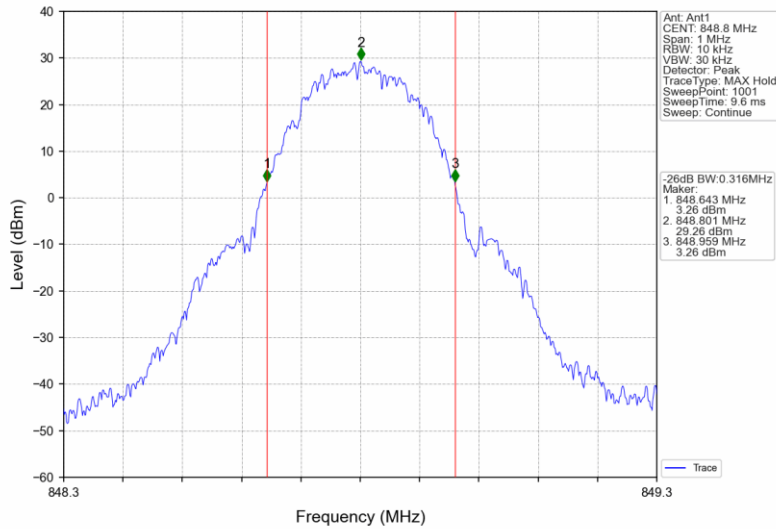
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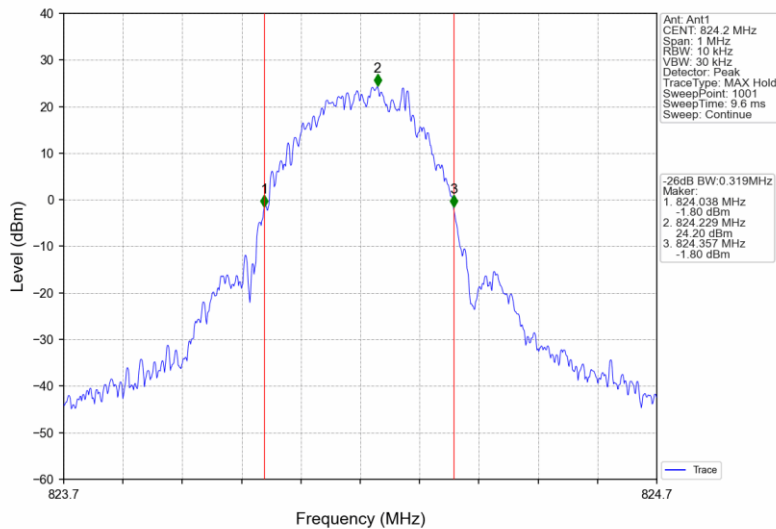
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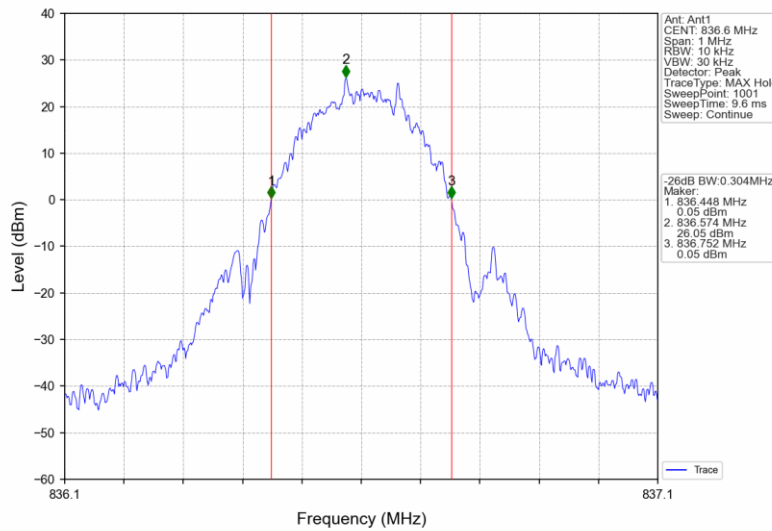
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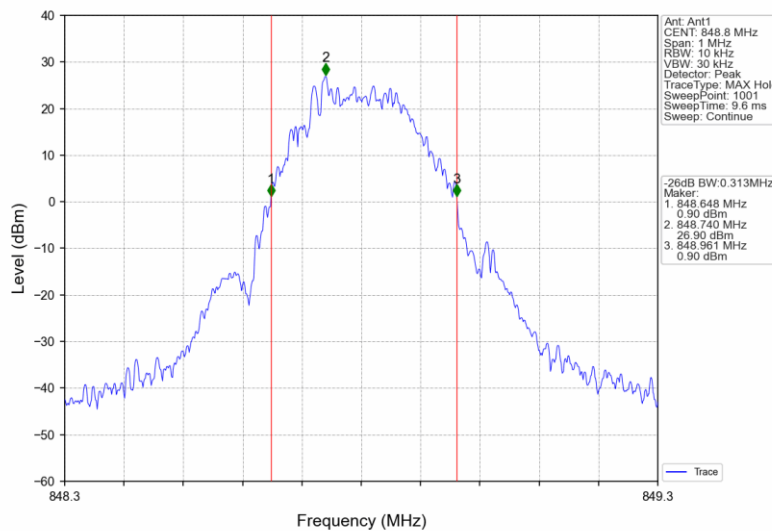
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5. Peak-Average Ratio

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	9.89	<=13	Pass
			836.6	9.66	<=13	Pass
			848.8	8.84	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.41	<=13	Pass
			836.6	9.06	<=13	Pass
			848.8	9.10	<=13	Pass



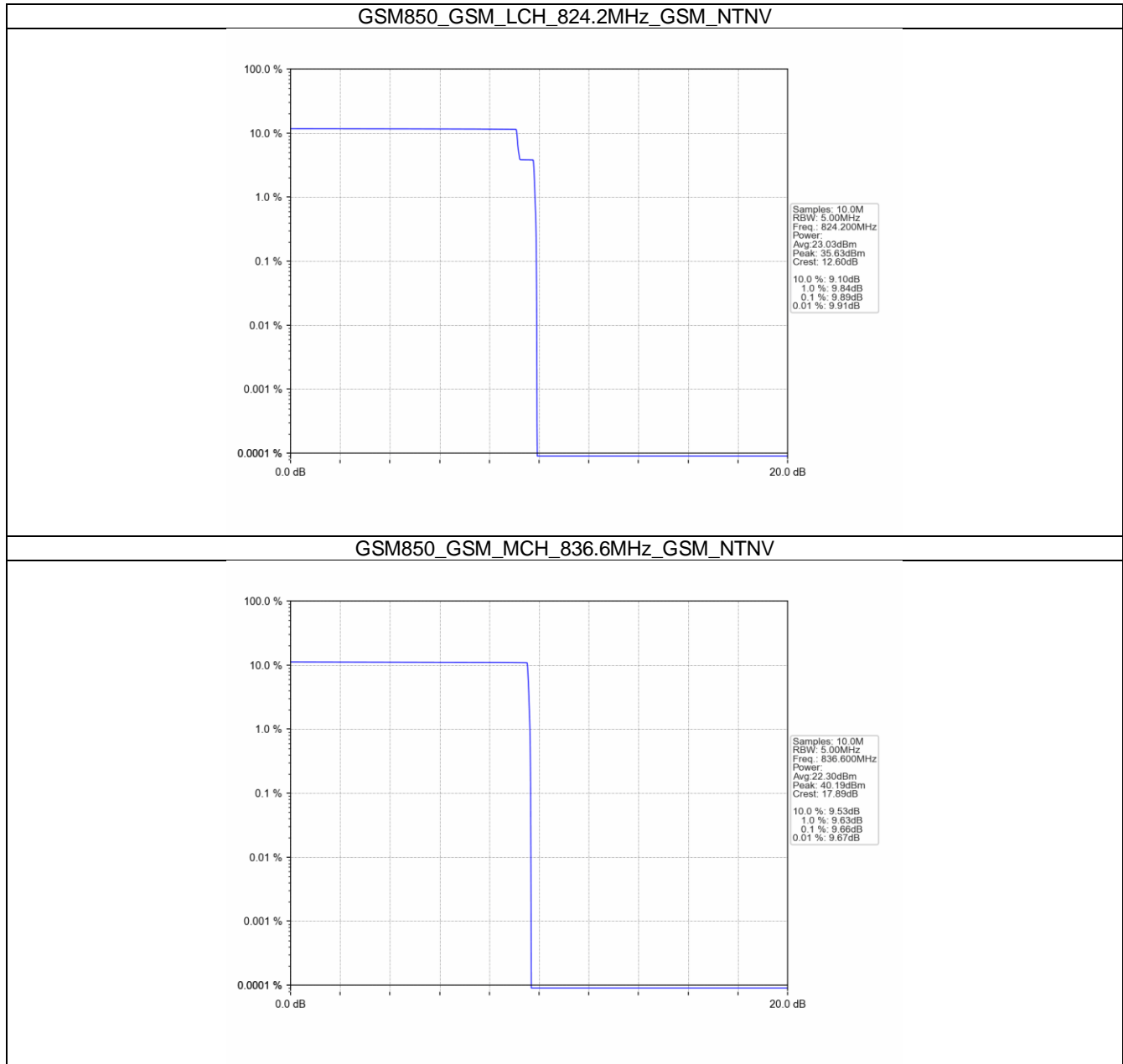
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5.1.2 Test Graph



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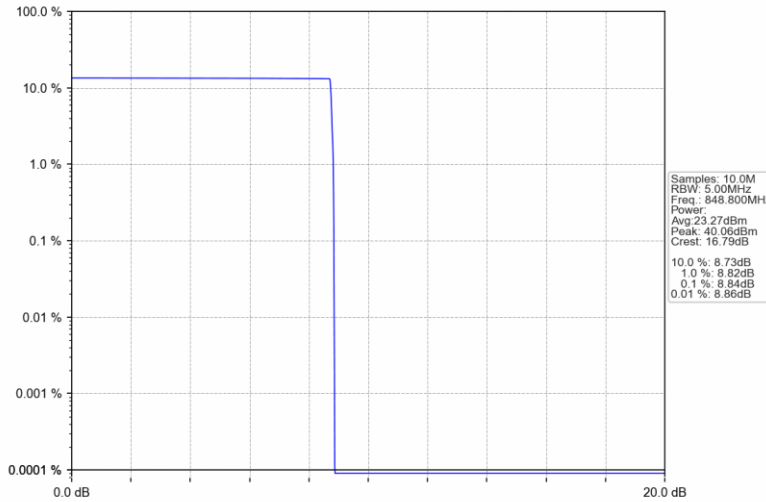
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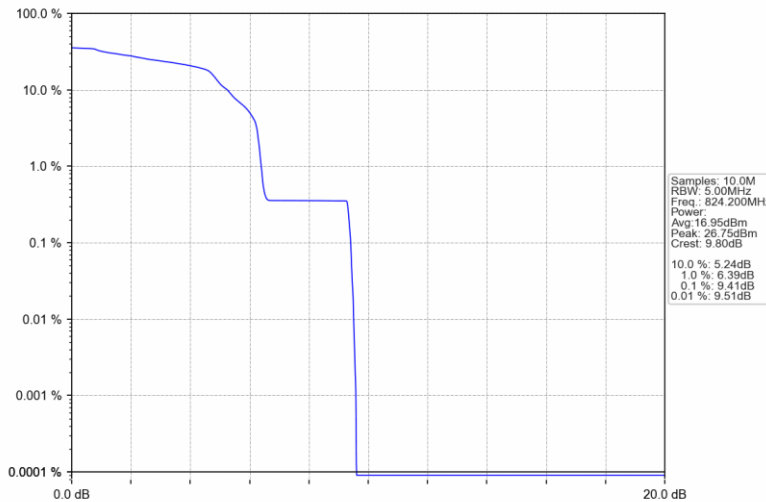
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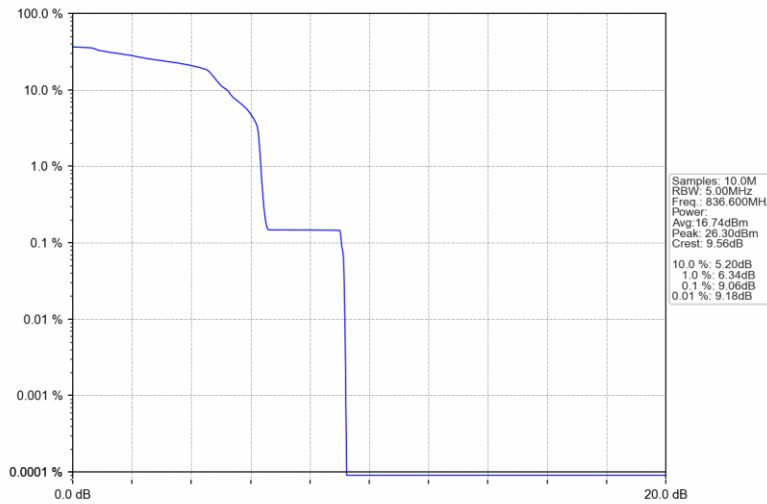
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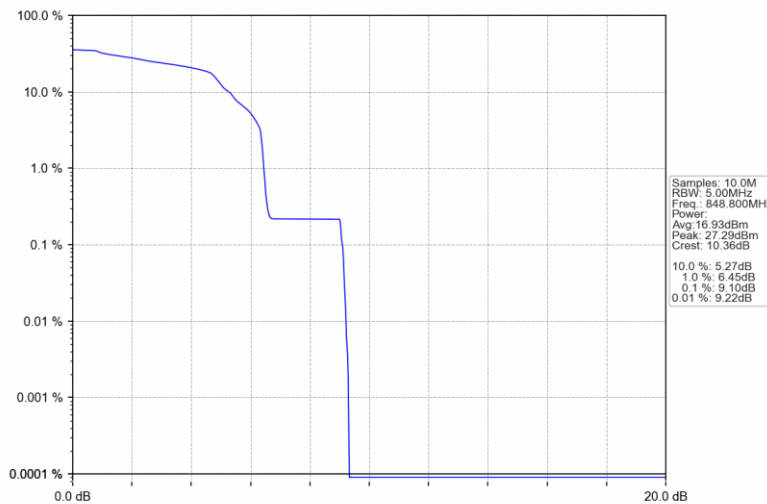
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6. Spurious Emission & Band Edges

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
	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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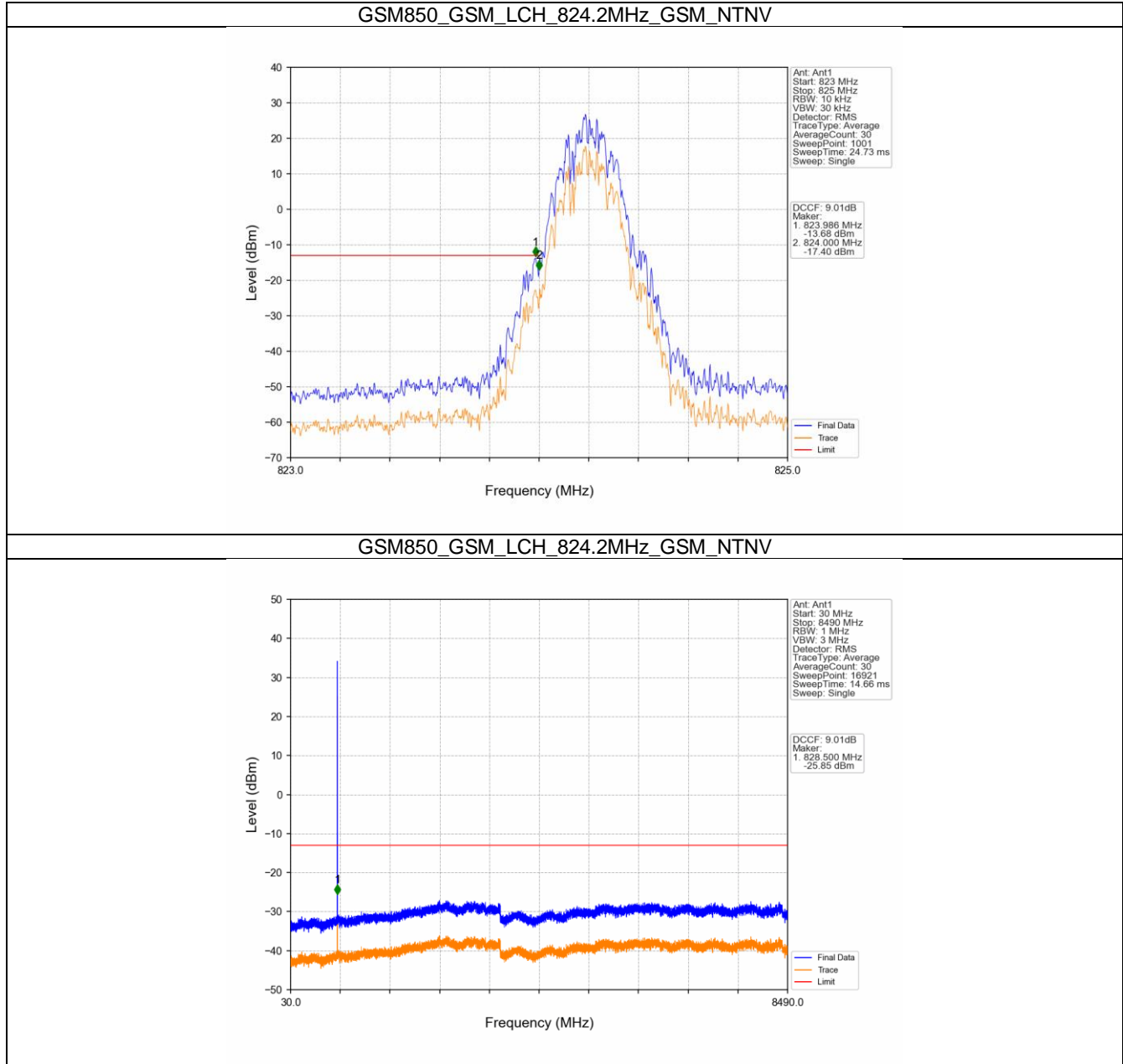
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5.1.2 Test Graph



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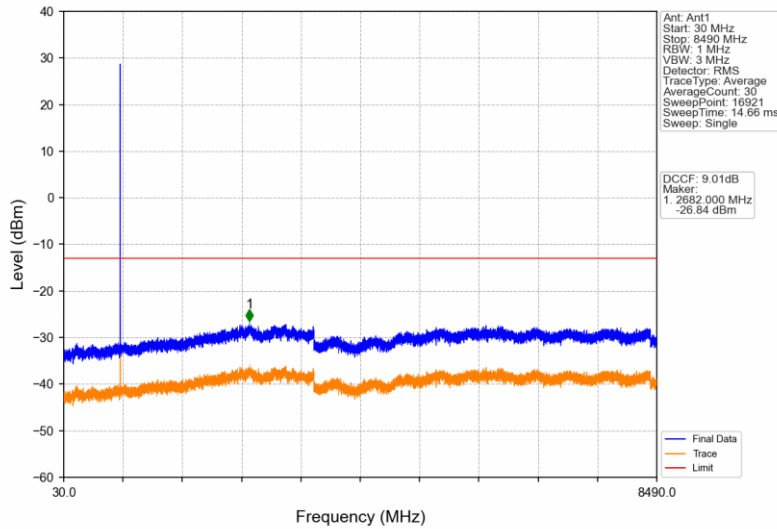
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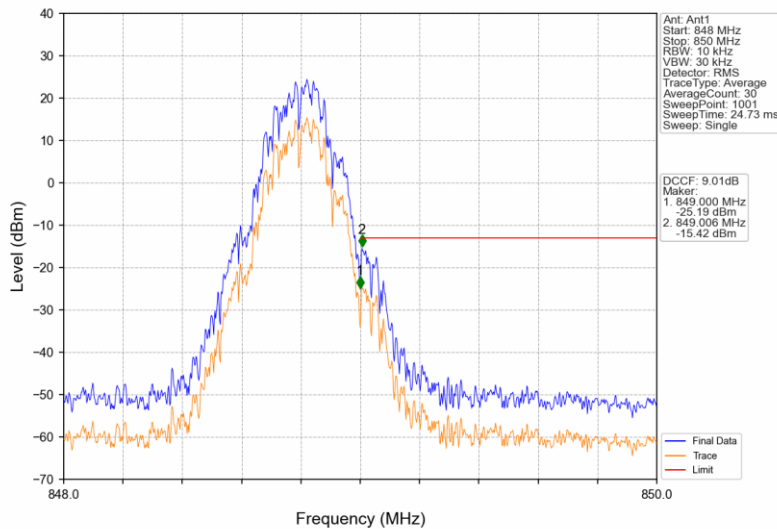
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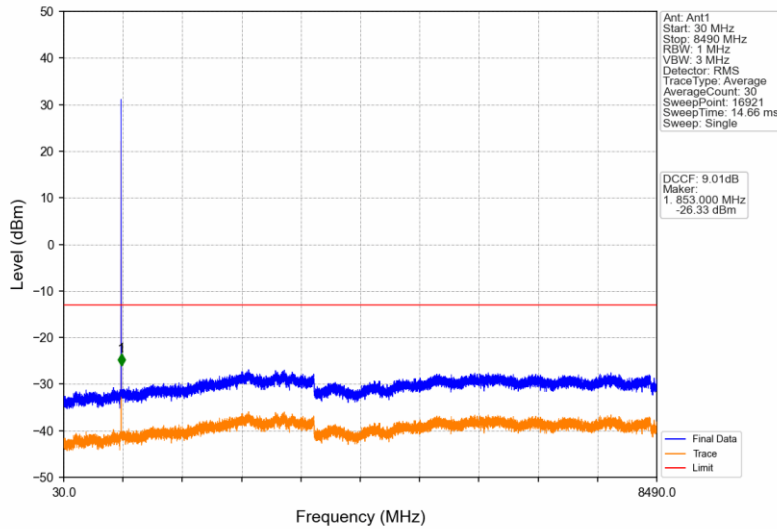


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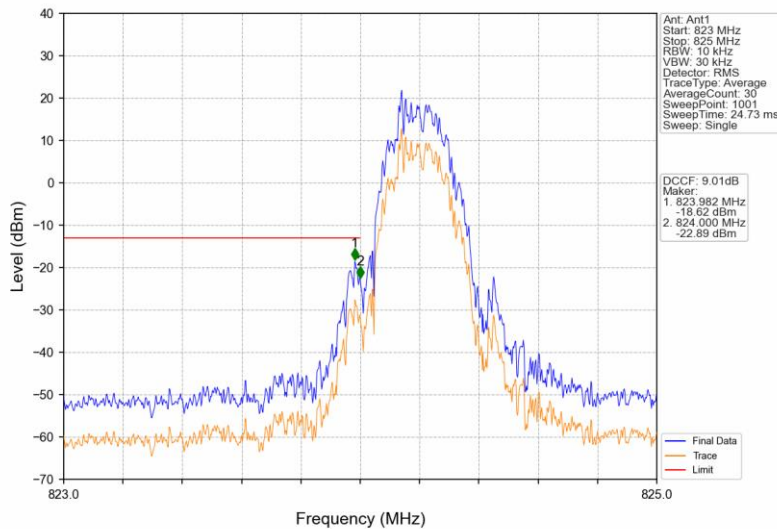
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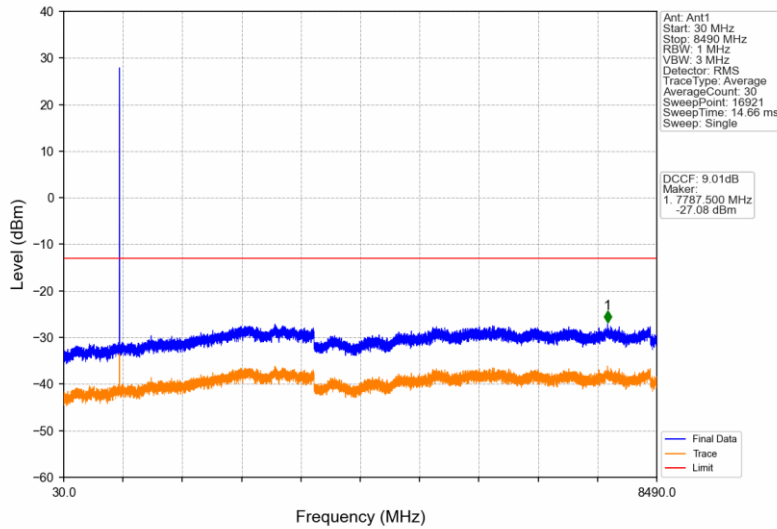


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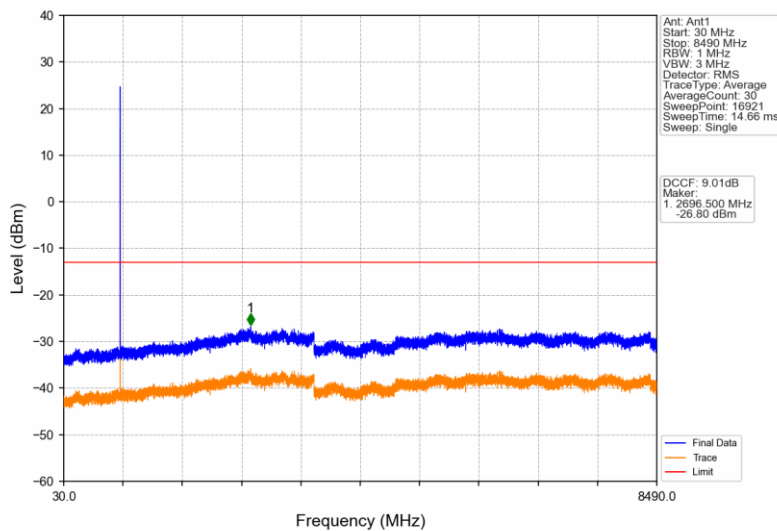
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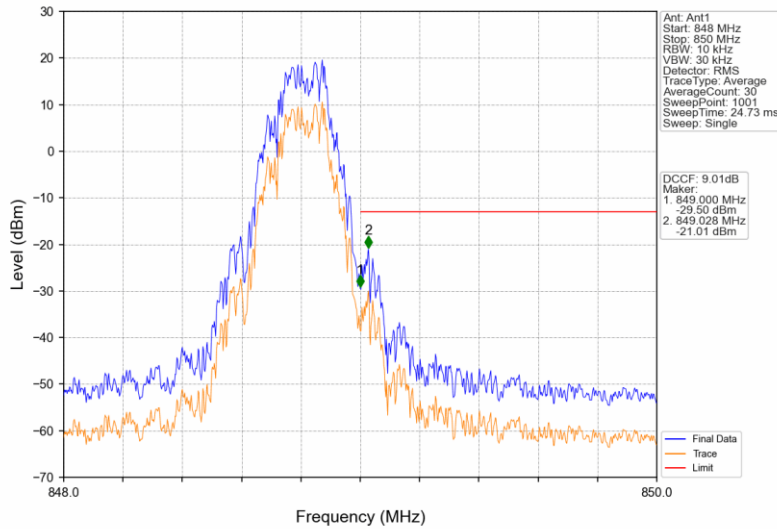
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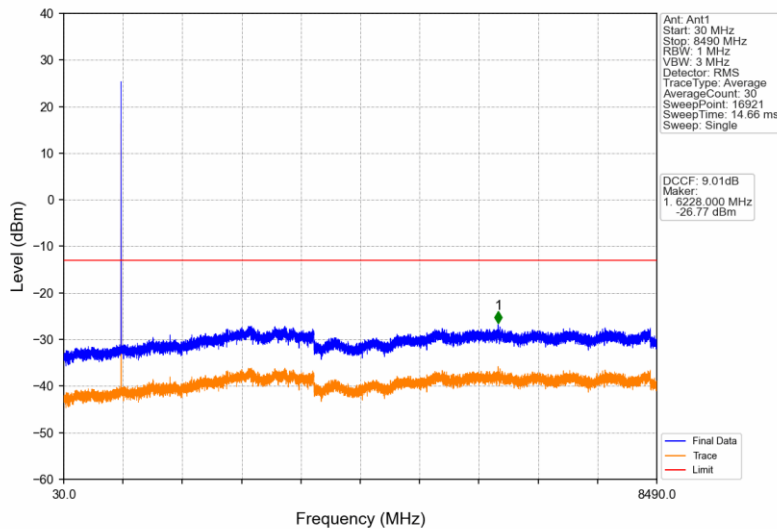
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