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Appendix B.1

GSM 850



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1. Effective (Isotropic) Radiated Power Output Data

Ant11

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	32.52	-5.61	24.76	<=38.45	Pass	
			836.6	32.55	-5.61	24.79	<=38.45	Pass	
			848.8	32.50	-5.61	24.74	<=38.45	Pass	
	GPRS	1 TX Slot	824.2	32.50	-5.61	24.74	<=38.45	Pass	
			2 TX Slots	824.2	30.51	-5.61	22.75	<=38.45	Pass
			3 TX Slots	824.2	27.63	-5.61	19.87	<=38.45	Pass
			4 TX Slots	824.2	27.06	-5.61	19.30	<=38.45	Pass
		2 TX Slots	836.6	32.53	-5.61	24.77	<=38.45	Pass	
			3 TX Slots	836.6	30.34	-5.61	22.58	<=38.45	Pass
			3 TX Slots	836.6	27.34	-5.61	19.58	<=38.45	Pass
			4 TX Slots	836.6	26.93	-5.61	19.17	<=38.45	Pass
		1 TX Slot	848.8	32.57	-5.61	24.81	<=38.45	Pass	
			2 TX Slots	848.8	30.96	-5.61	23.20	<=38.45	Pass
			3 TX Slots	848.8	28.28	-5.61	20.52	<=38.45	Pass
			4 TX Slots	848.8	27.02	-5.61	19.26	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	25.85	-5.61	18.09	<=38.45	Pass	
			2 TX Slots	824.2	24.79	-5.61	17.03	<=38.45	Pass
			3 TX Slots	824.2	22.76	-5.61	15.00	<=38.45	Pass
			4 TX Slots	824.2	21.48	-5.61	13.72	<=38.45	Pass
		2 TX Slots	836.6	25.81	-5.61	18.05	<=38.45	Pass	
			3 TX Slots	836.6	25.07	-5.61	17.31	<=38.45	Pass
			3 TX Slots	836.6	22.81	-5.61	15.05	<=38.45	Pass
			4 TX Slots	836.6	21.29	-5.61	13.53	<=38.45	Pass
		1 TX Slot	848.8	25.59	-5.61	17.83	<=38.45	Pass	
			2 TX Slots	848.8	24.72	-5.61	16.96	<=38.45	Pass
			3 TX Slots	848.8	23.21	-5.61	15.45	<=38.45	Pass
			4 TX Slots	848.8	21.17	-5.61	13.41	<=38.45	Pass



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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	3.7	13.563	0.0165	-2.5 to 2.5	Pass	
			3.91	12.275	0.0149	-2.5 to 2.5	Pass	
			4.4	5.936	0.0072	-2.5 to 2.5	Pass	
		-30	3.91	7.905	0.0096	-2.5 to 2.5	Pass	
		-20	3.91	11.242	0.0136	-2.5 to 2.5	Pass	
		-10	3.91	14.791	0.0179	-2.5 to 2.5	Pass	
		0	3.91	11.805	0.0143	-2.5 to 2.5	Pass	
		10	3.91	12.993	0.0158	-2.5 to 2.5	Pass	
		30	3.91	9.401	0.0114	-2.5 to 2.5	Pass	
		40	3.91	12.253	0.0149	-2.5 to 2.5	Pass	
	50	3.91	11.495	0.0139	-2.5 to 2.5	Pass		
	836.6	20	3.7	12.854	0.0154	-2.5 to 2.5	Pass	
			3.91	13.075	0.0156	-2.5 to 2.5	Pass	
			4.4	14.748	0.0176	-2.5 to 2.5	Pass	
		-30	3.91	10.538	0.0126	-2.5 to 2.5	Pass	
		-20	3.91	12.695	0.0152	-2.5 to 2.5	Pass	
		-10	3.91	7.072	0.0085	-2.5 to 2.5	Pass	
		0	3.91	13.539	0.0162	-2.5 to 2.5	Pass	
		10	3.91	11.107	0.0133	-2.5 to 2.5	Pass	
		30	3.91	12.864	0.0154	-2.5 to 2.5	Pass	
		40	3.91	10.446	0.0125	-2.5 to 2.5	Pass	
	50	3.91	12.414	0.0148	-2.5 to 2.5	Pass		
	848.8	20	3.7	10.943	0.0129	-2.5 to 2.5	Pass	
			3.91	11.714	0.0138	-2.5 to 2.5	Pass	
			4.4	10.982	0.0129	-2.5 to 2.5	Pass	
		-30	3.91	10.906	0.0128	-2.5 to 2.5	Pass	
		-20	3.91	10.510	0.0124	-2.5 to 2.5	Pass	
		-10	3.91	12.474	0.0147	-2.5 to 2.5	Pass	
		0	3.91	13.782	0.0162	-2.5 to 2.5	Pass	
		10	3.91	11.872	0.0140	-2.5 to 2.5	Pass	
		30	3.91	11.789	0.0139	-2.5 to 2.5	Pass	
		40	3.91	14.712	0.0173	-2.5 to 2.5	Pass	
	50	3.91	14.201	0.0167	-2.5 to 2.5	Pass		
	GPRS	824.2	20	3.7	16.280	0.0198	-2.5 to 2.5	Pass
				3.91	15.975	0.0194	-2.5 to 2.5	Pass
				4.4	15.127	0.0184	-2.5 to 2.5	Pass
-30			3.91	15.765	0.0191	-2.5 to 2.5	Pass	



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		-20	3.91	16.779	0.0204	-2.5 to 2.5	Pass	
		-10	3.91	15.969	0.0194	-2.5 to 2.5	Pass	
		0	3.91	16.160	0.0196	-2.5 to 2.5	Pass	
		10	3.91	16.200	0.0197	-2.5 to 2.5	Pass	
		30	3.91	16.444	0.0200	-2.5 to 2.5	Pass	
		40	3.91	17.109	0.0208	-2.5 to 2.5	Pass	
	836.6	20	3.7	13.710	0.0164	-2.5 to 2.5	Pass	
			3.91	17.131	0.0205	-2.5 to 2.5	Pass	
			4.4	18.300	0.0219	-2.5 to 2.5	Pass	
		-30	3.91	17.875	0.0214	-2.5 to 2.5	Pass	
		-20	3.91	19.662	0.0235	-2.5 to 2.5	Pass	
		-10	3.91	19.181	0.0229	-2.5 to 2.5	Pass	
		0	3.91	18.327	0.0219	-2.5 to 2.5	Pass	
		10	3.91	16.716	0.0200	-2.5 to 2.5	Pass	
		30	3.91	16.678	0.0199	-2.5 to 2.5	Pass	
		40	3.91	16.734	0.0200	-2.5 to 2.5	Pass	
		50	3.91	18.389	0.0220	-2.5 to 2.5	Pass	
		848.8	20	3.7	19.213	0.0226	-2.5 to 2.5	Pass
				3.91	16.617	0.0196	-2.5 to 2.5	Pass
				4.4	16.102	0.0190	-2.5 to 2.5	Pass
	-30		3.91	15.929	0.0188	-2.5 to 2.5	Pass	
	-20		3.91	16.513	0.0195	-2.5 to 2.5	Pass	
	-10		3.91	15.823	0.0186	-2.5 to 2.5	Pass	
	0		3.91	14.474	0.0171	-2.5 to 2.5	Pass	
	10		3.91	15.272	0.0180	-2.5 to 2.5	Pass	
	30		3.91	15.327	0.0181	-2.5 to 2.5	Pass	
	40		3.91	14.696	0.0173	-2.5 to 2.5	Pass	
	EGPRS	824.2	20	3.7	12.558	0.0152	-2.5 to 2.5	Pass
				3.91	15.429	0.0187	-2.5 to 2.5	Pass
				4.4	16.418	0.0199	-2.5 to 2.5	Pass
			-30	3.91	17.241	0.0209	-2.5 to 2.5	Pass
			-20	3.91	20.166	0.0245	-2.5 to 2.5	Pass
			-10	3.91	20.303	0.0246	-2.5 to 2.5	Pass
			0	3.91	21.029	0.0255	-2.5 to 2.5	Pass
			10	3.91	23.490	0.0285	-2.5 to 2.5	Pass
			30	3.91	22.148	0.0269	-2.5 to 2.5	Pass
836.6		20	3.7	23.521	0.0281	-2.5 to 2.5	Pass	
			3.91	22.827	0.0273	-2.5 to 2.5	Pass	
			4.4	21.959	0.0262	-2.5 to 2.5	Pass	
		-30	3.91	21.667	0.0259	-2.5 to 2.5	Pass	
		-20	3.91	20.826	0.0249	-2.5 to 2.5	Pass	
		-10	3.91	20.772	0.0248	-2.5 to 2.5	Pass	
		0	3.91	22.802	0.0273	-2.5 to 2.5	Pass	
		10	3.91	21.975	0.0263	-2.5 to 2.5	Pass	



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		30	3.91	22.376	0.0267	-2.5 to 2.5	Pass
		40	3.91	23.506	0.0281	-2.5 to 2.5	Pass
		50	3.91	23.243	0.0278	-2.5 to 2.5	Pass
	848.8	20	3.7	25.612	0.0302	-2.5 to 2.5	Pass
			3.91	20.379	0.0240	-2.5 to 2.5	Pass
			4.4	20.130	0.0237	-2.5 to 2.5	Pass
		-30	3.91	19.270	0.0227	-2.5 to 2.5	Pass
		-20	3.91	20.717	0.0244	-2.5 to 2.5	Pass
		-10	3.91	19.695	0.0232	-2.5 to 2.5	Pass
		0	3.91	19.562	0.0230	-2.5 to 2.5	Pass
		10	3.91	20.437	0.0241	-2.5 to 2.5	Pass
		30	3.91	19.421	0.0229	-2.5 to 2.5	Pass
		40	3.91	19.940	0.0235	-2.5 to 2.5	Pass
		50	3.91	19.422	0.0229	-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	0.245	/	Pass
			836.6	0.247	/	Pass
			848.8	0.244	/	Pass
	GPRS	1 TX Slot	824.2	0.251	/	Pass
			836.6	0.244	/	Pass
			848.8	0.243	/	Pass
	EGPRS	1 TX Slot	824.2	0.229	/	Pass
			836.6	0.240	/	Pass
			848.8	0.238	/	Pass



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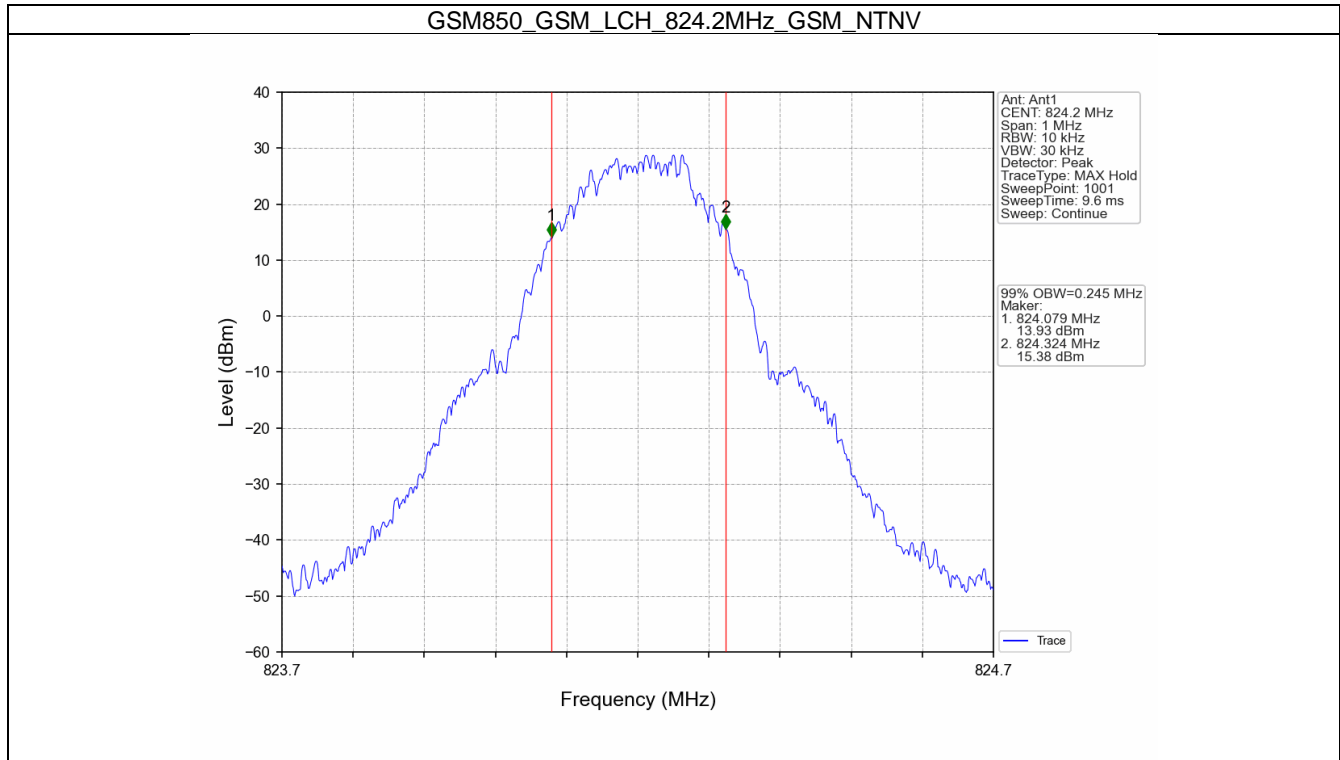
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3.1.2 Test Graph



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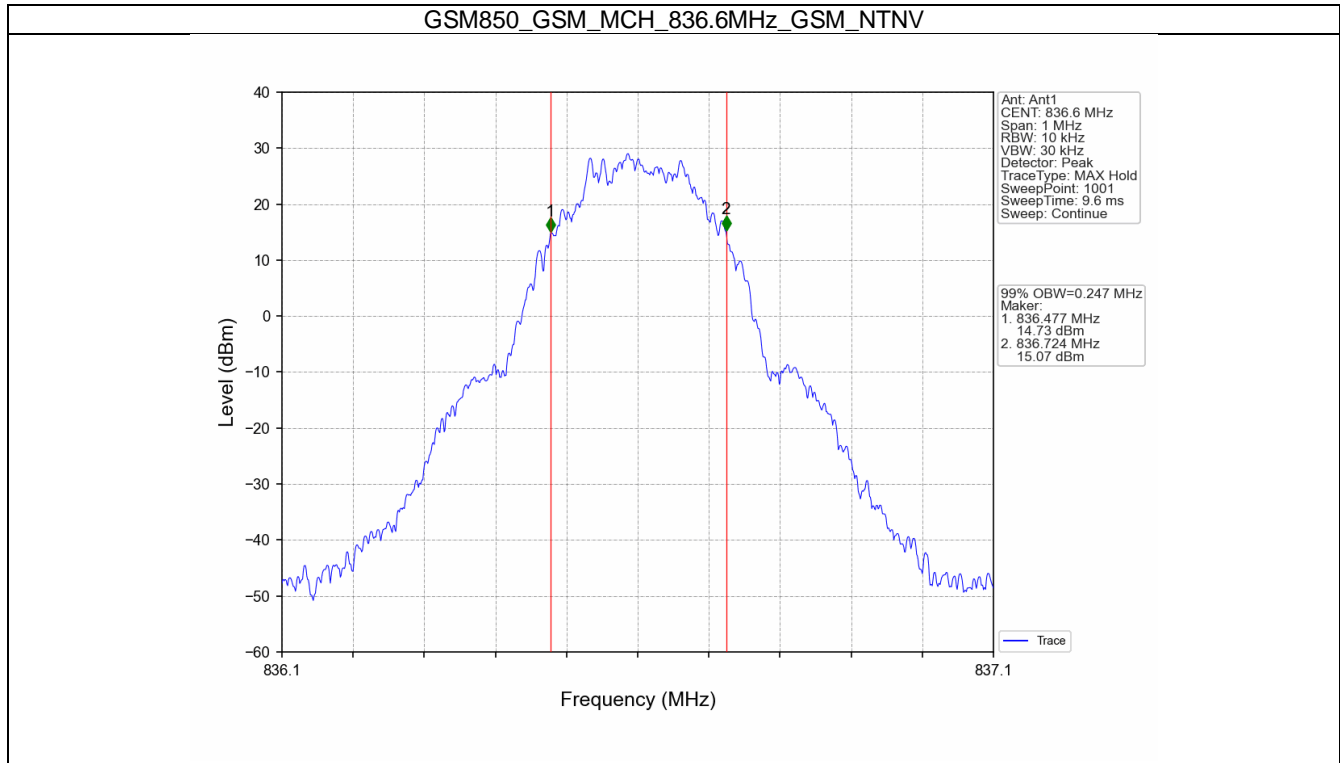


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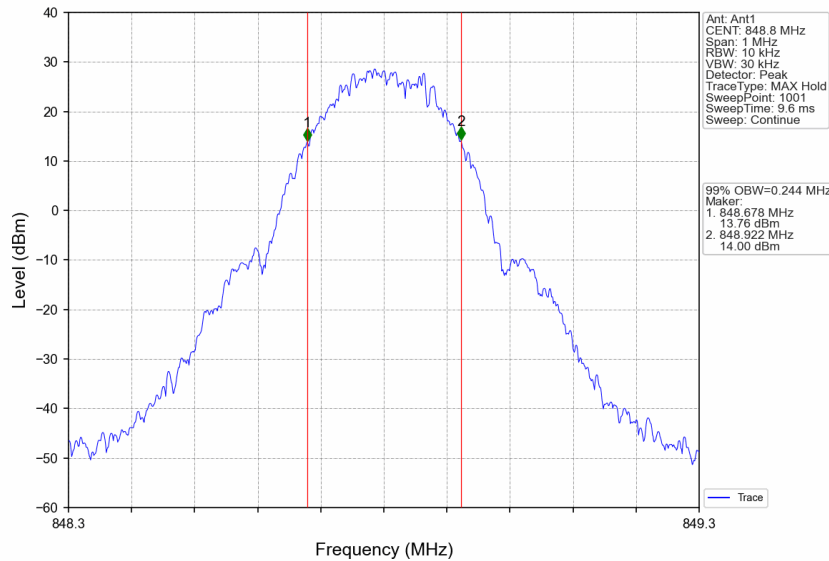
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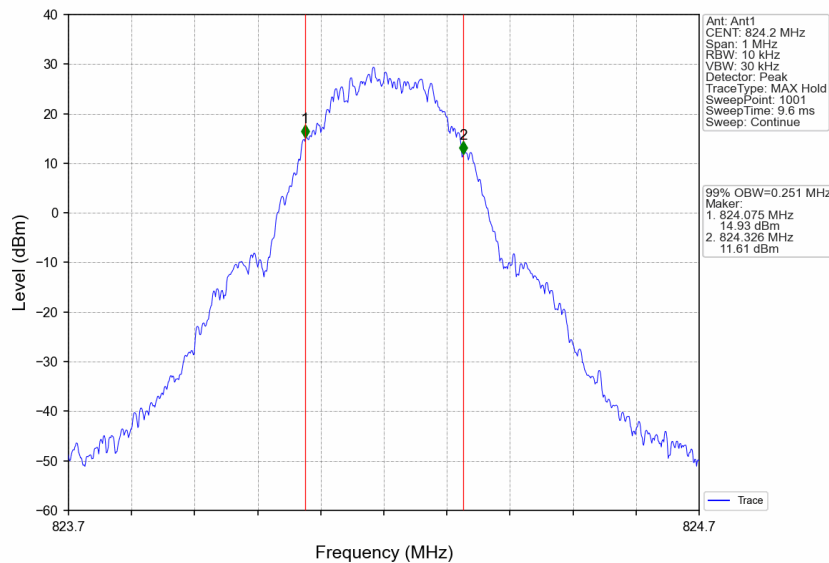
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



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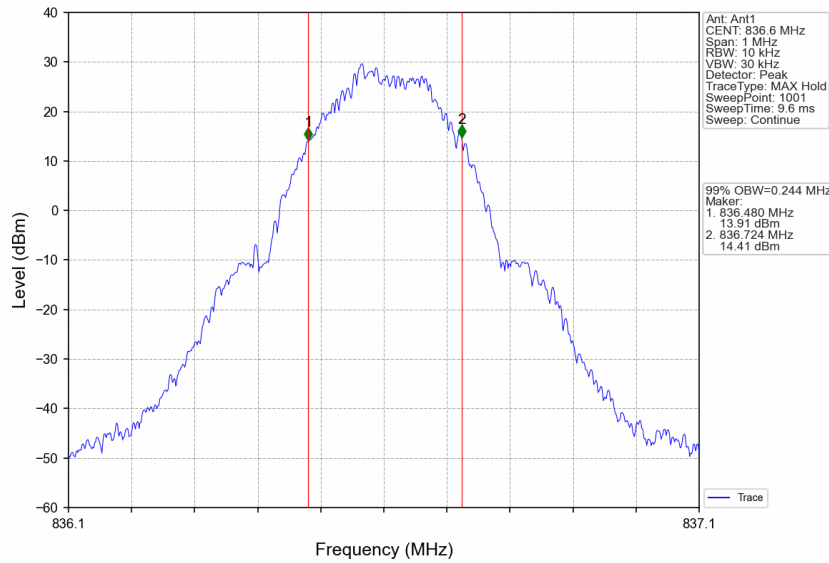
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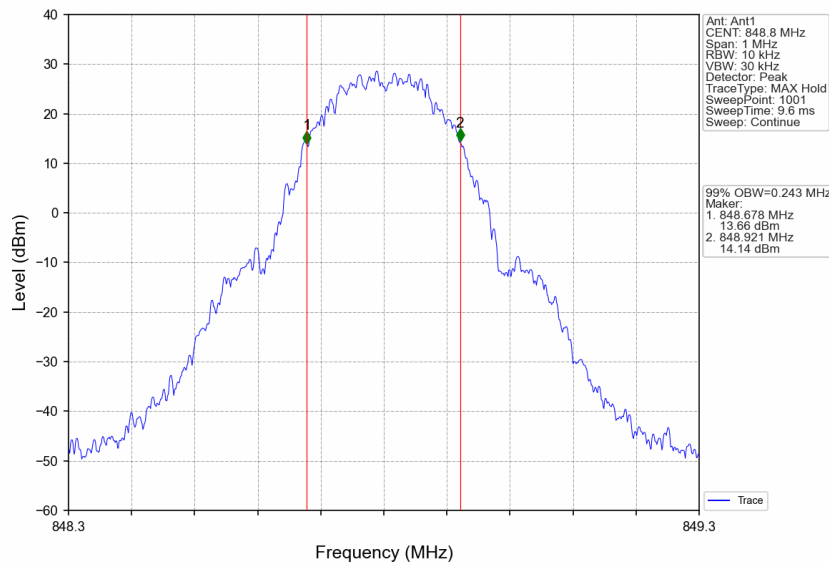
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GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



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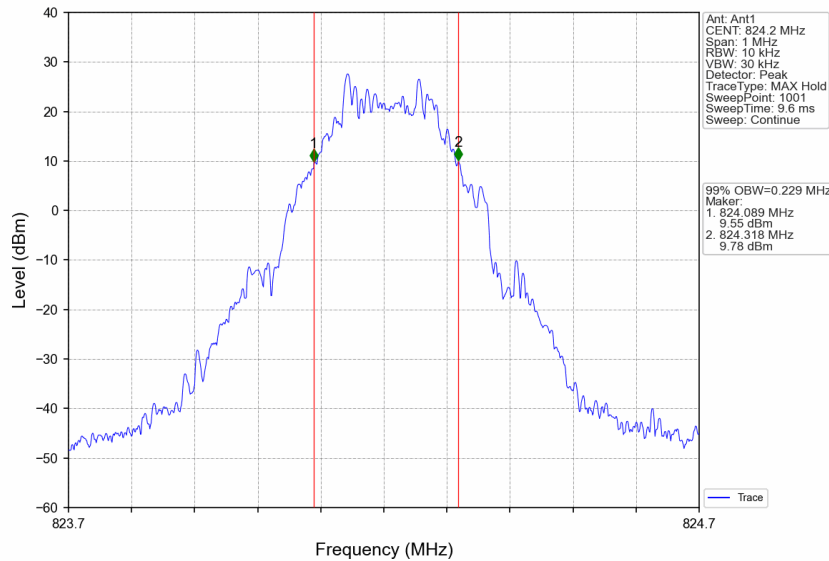
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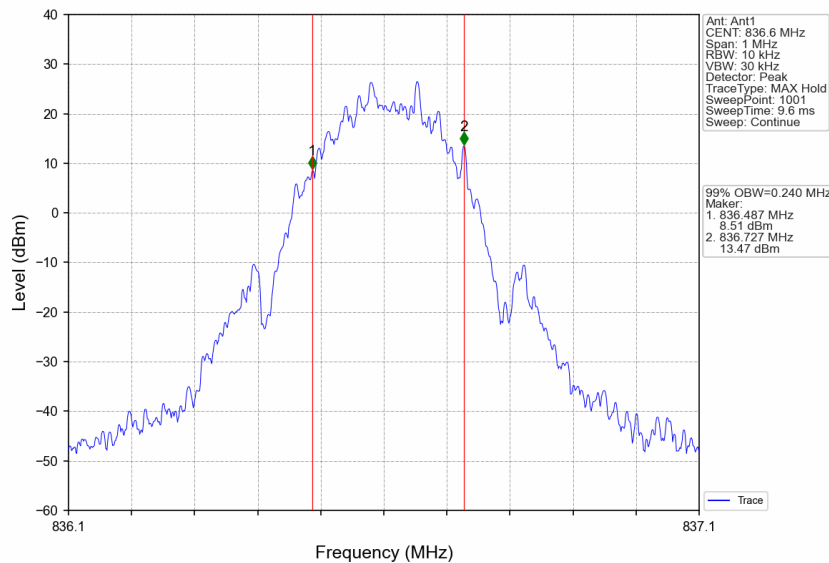
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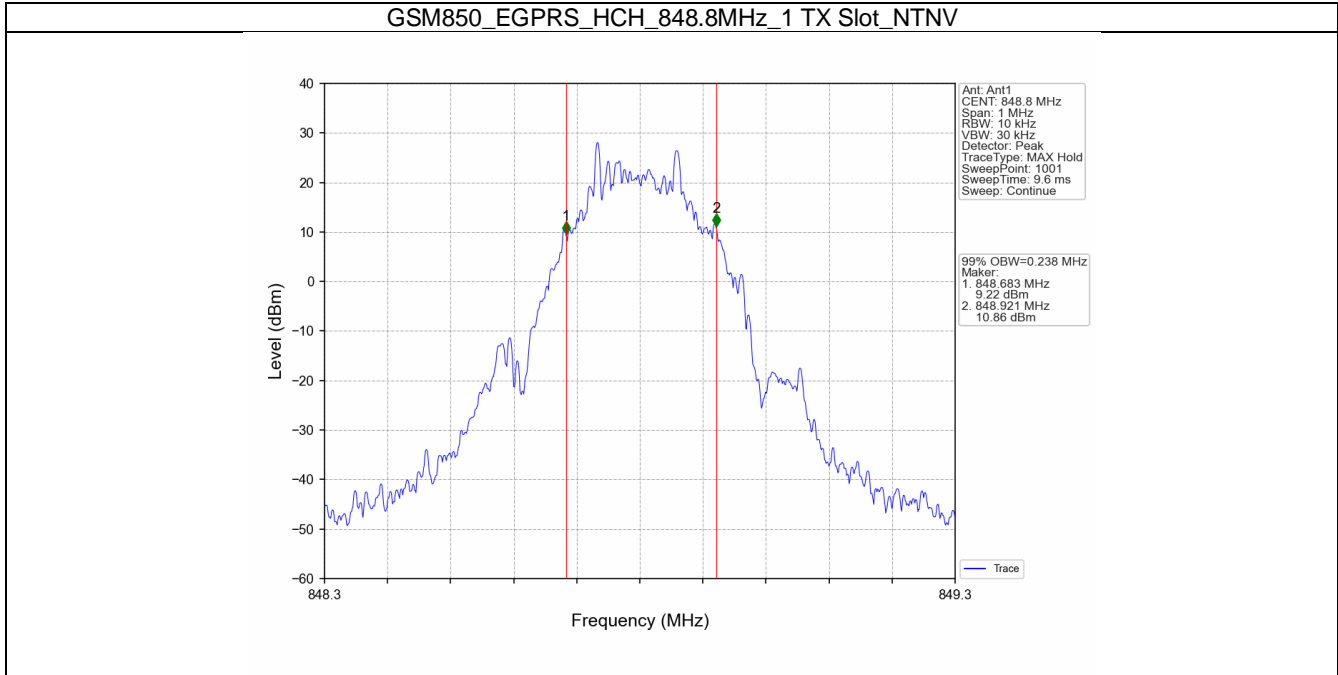


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3.2 GSM850_XDB

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	0.316	/	Pass
			848.8	0.321	/	Pass
	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	0.302	/	Pass
			836.6	0.298	/	Pass
			848.8	0.280	/	Pass



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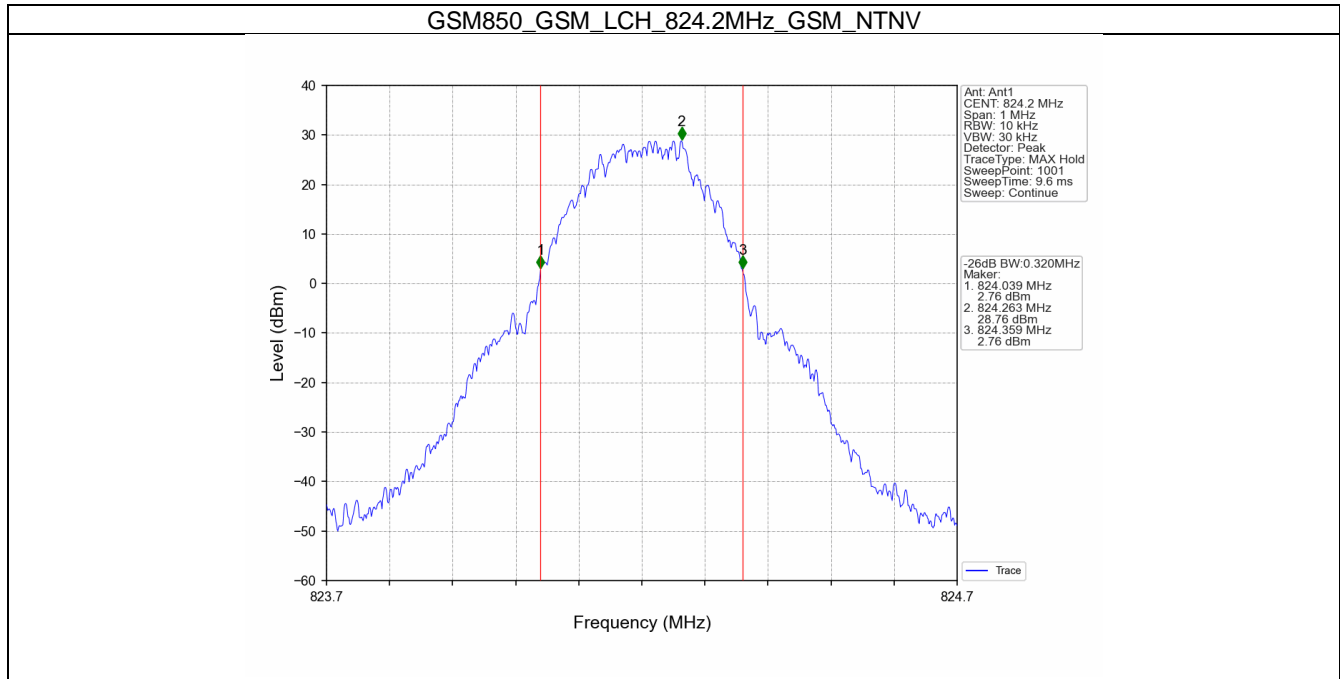
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3.2.2 Test Graph



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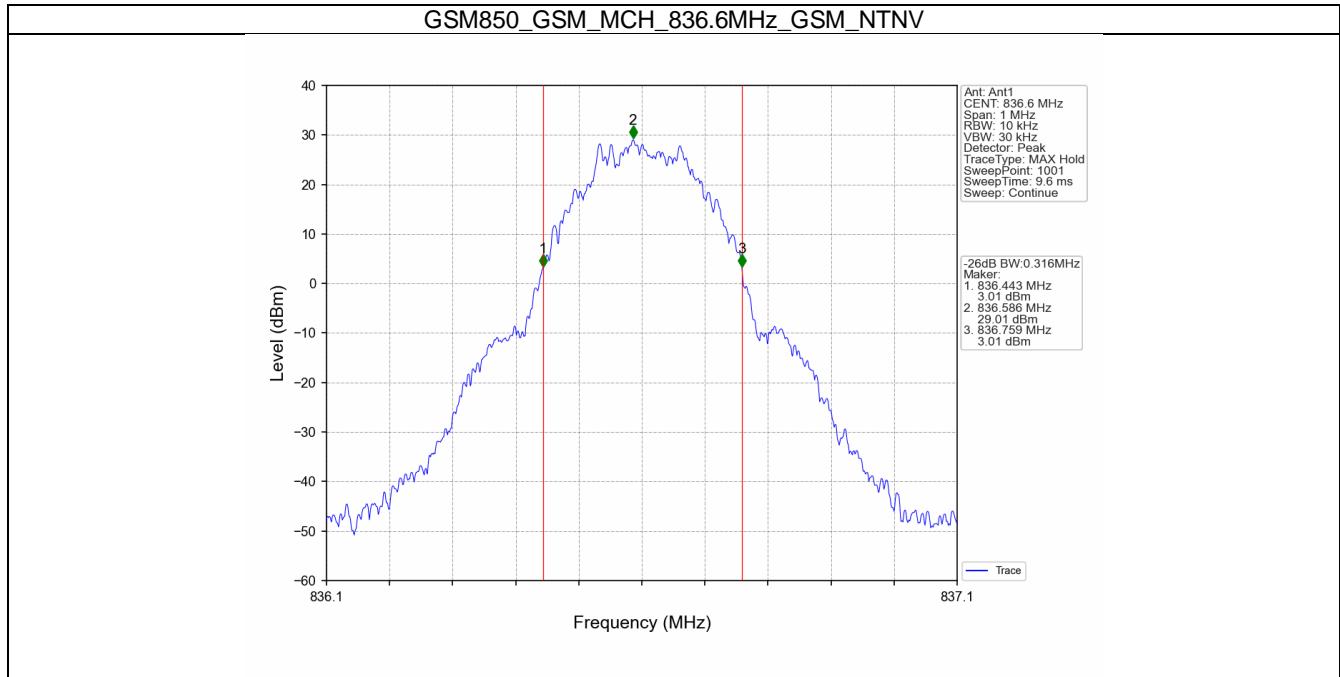


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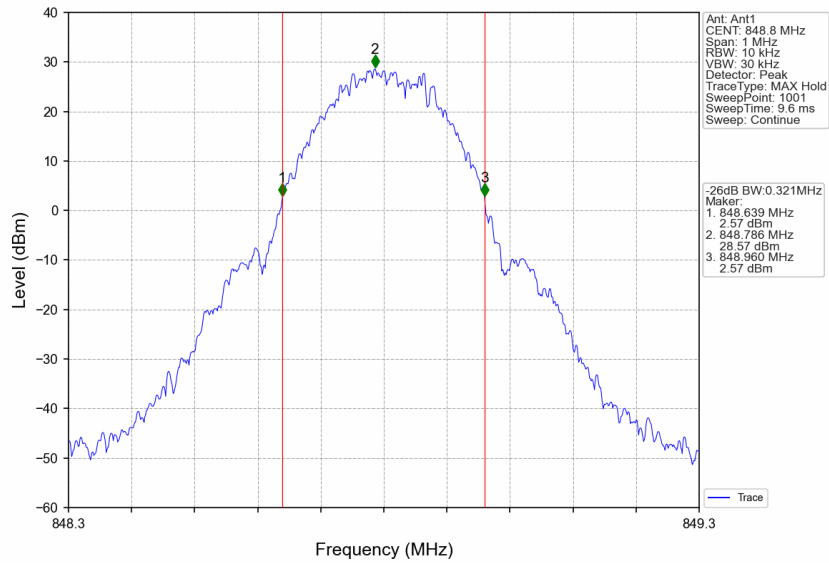
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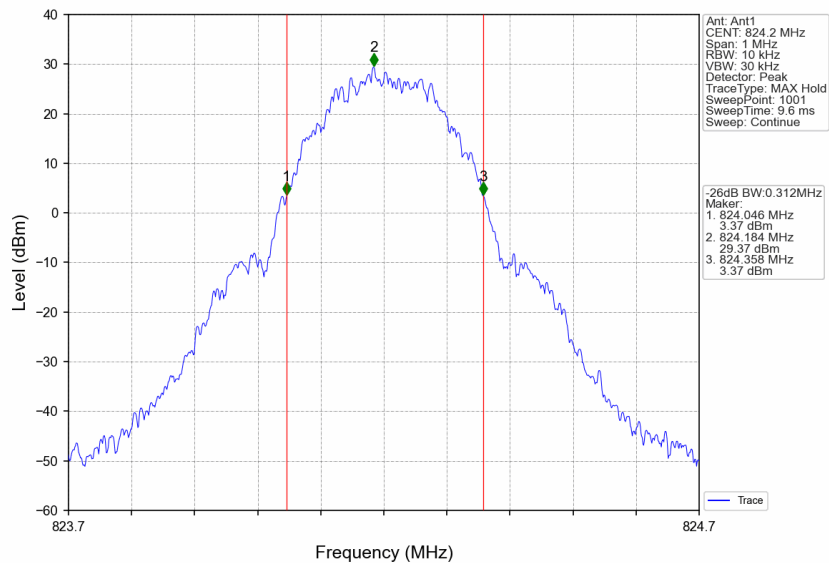
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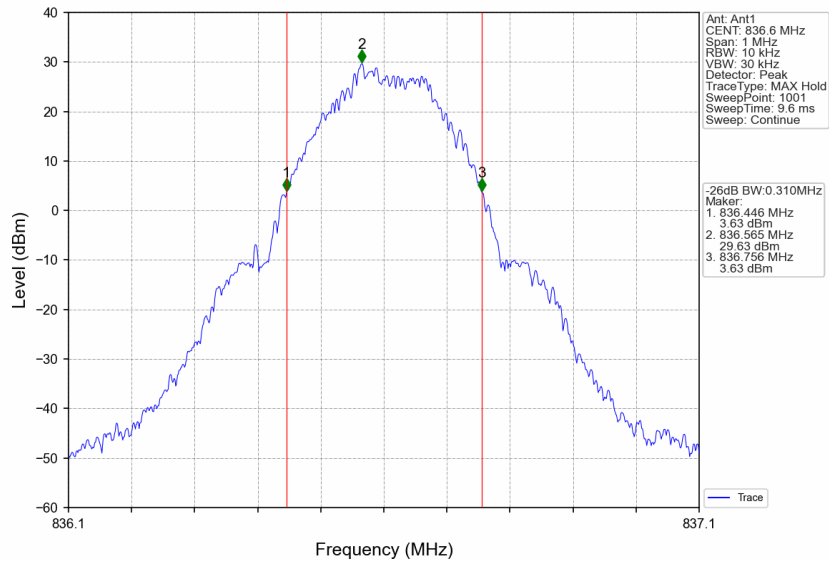
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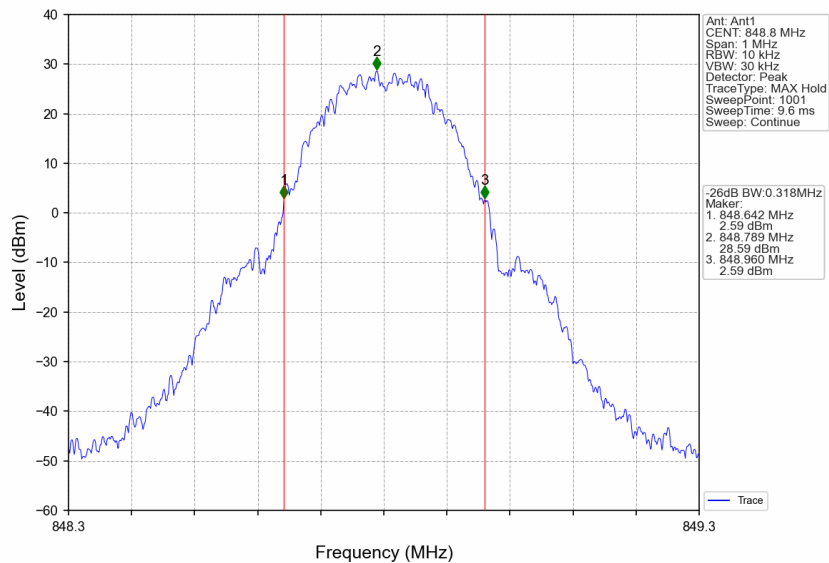
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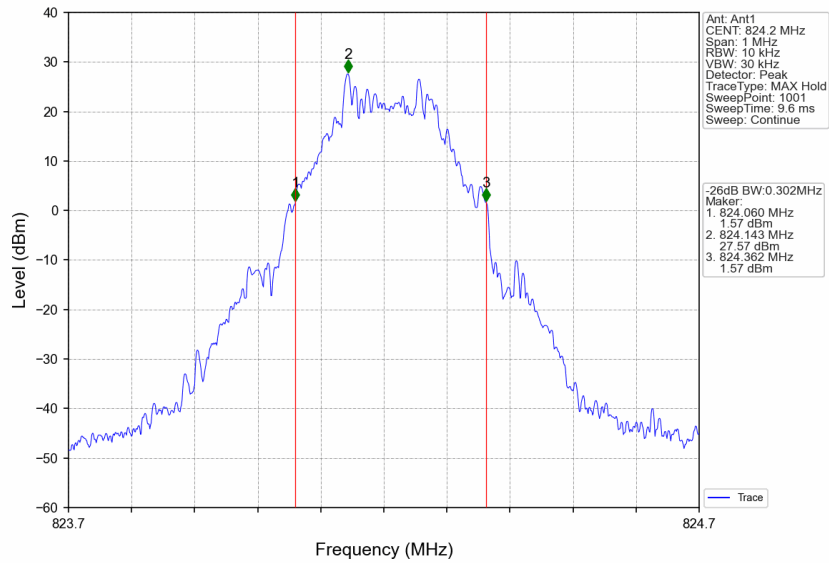
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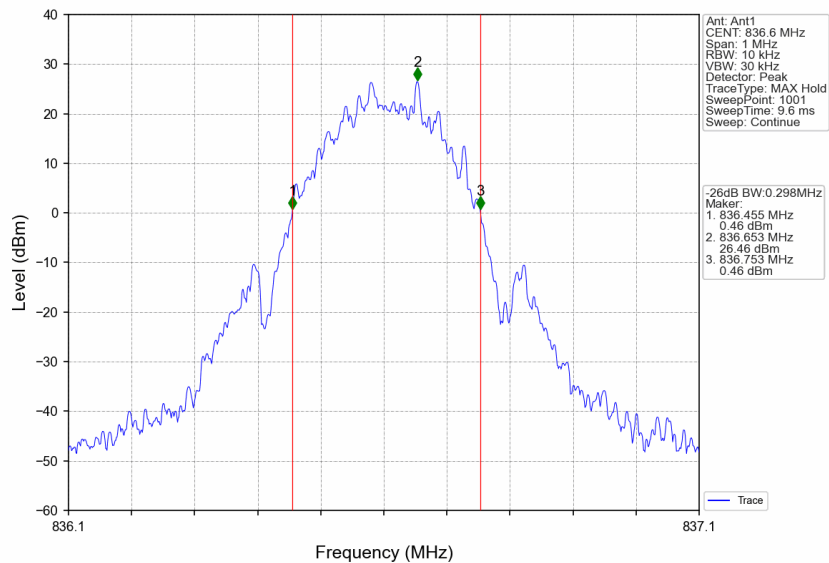
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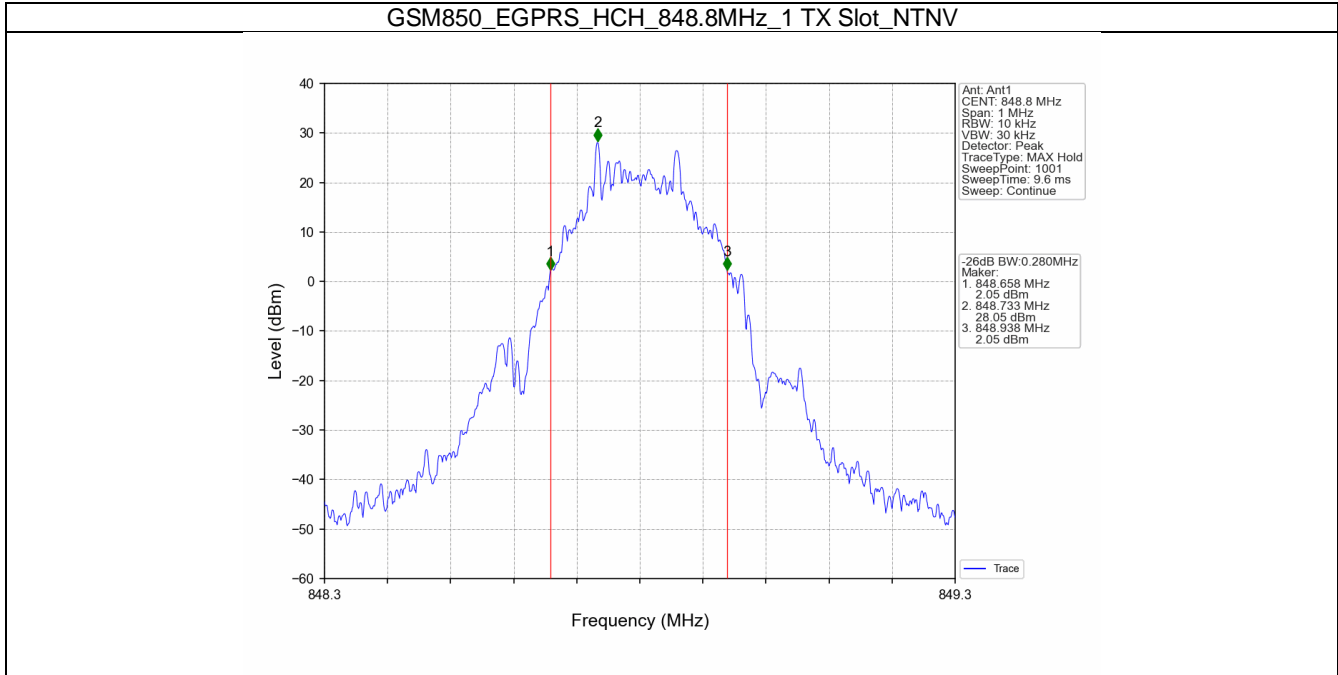


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4. Peak-Average Ratio

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	9.67	<=13	Pass
			836.6	9.60	<=13	Pass
			848.8	9.48	<=13	Pass
	GPRS	4 TX Slots	824.2	3.61	<=13	Pass
			836.6	3.75	<=13	Pass
			848.8	3.59	<=13	Pass
	EGPRS	4 TX Slots	824.2	8.93	<=13	Pass
			836.6	8.82	<=13	Pass
			848.8	9.16	<=13	Pass



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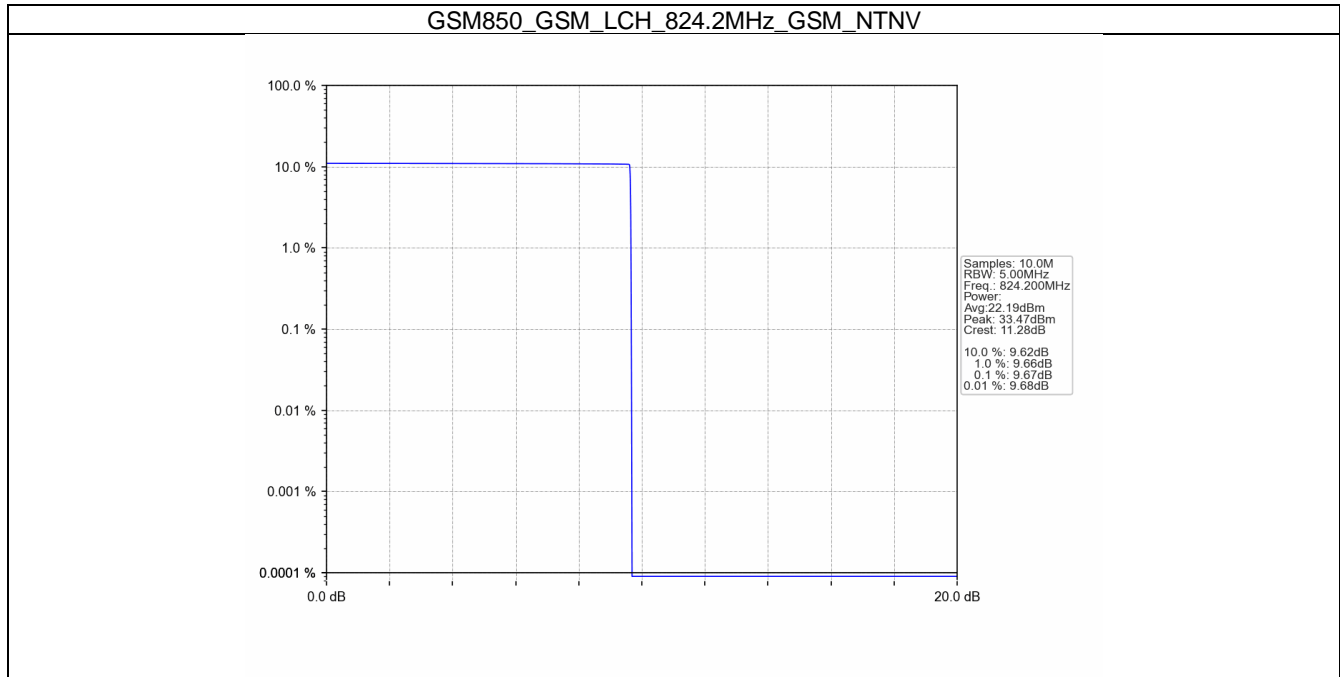
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4.1.2 Test Graph



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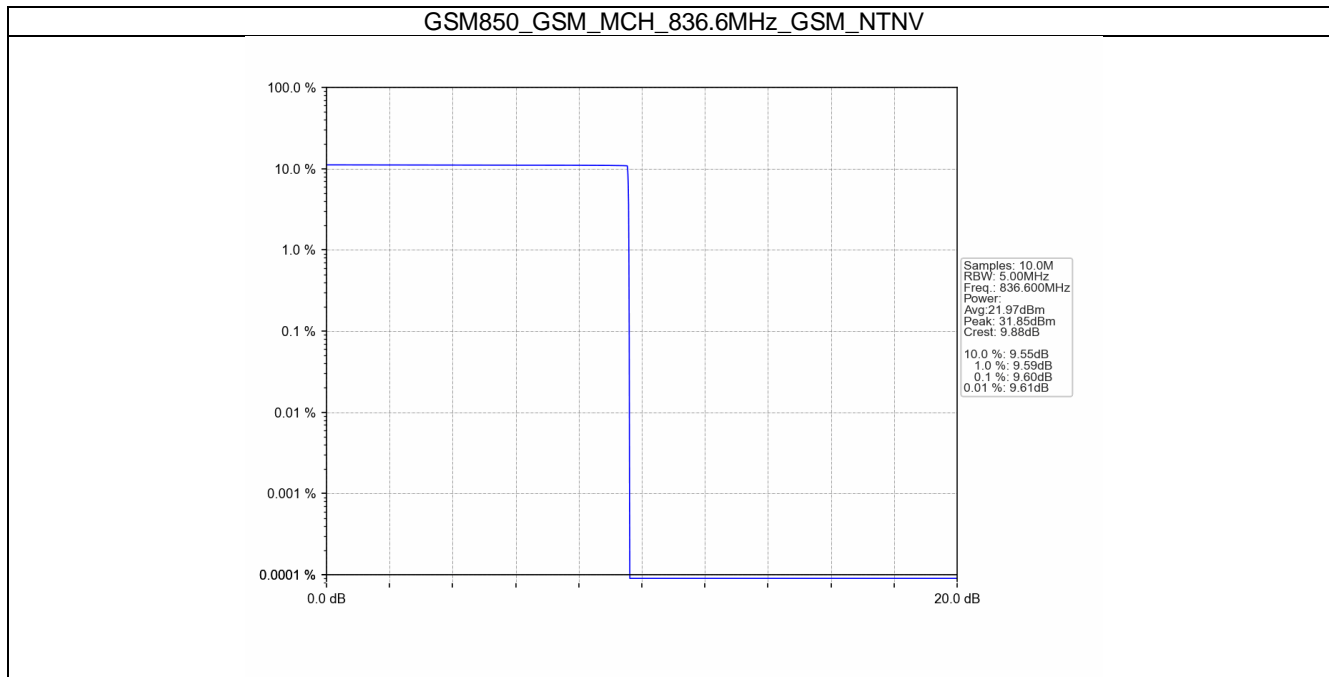
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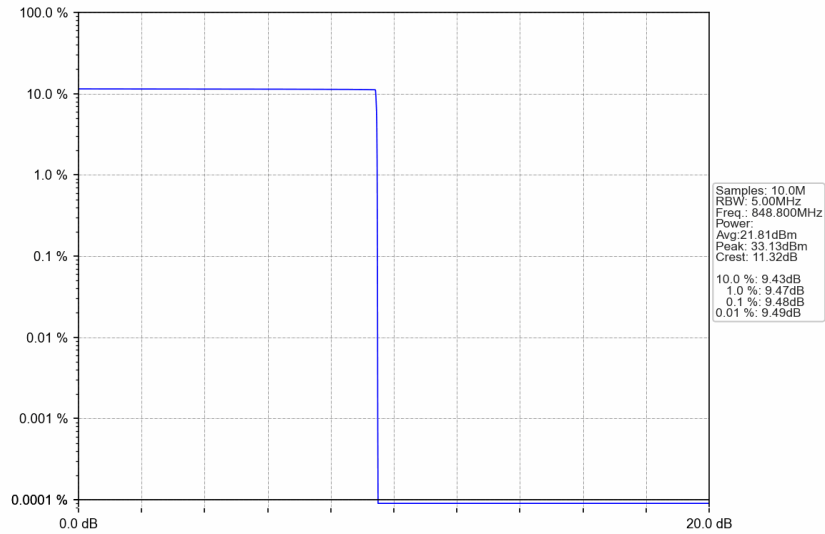
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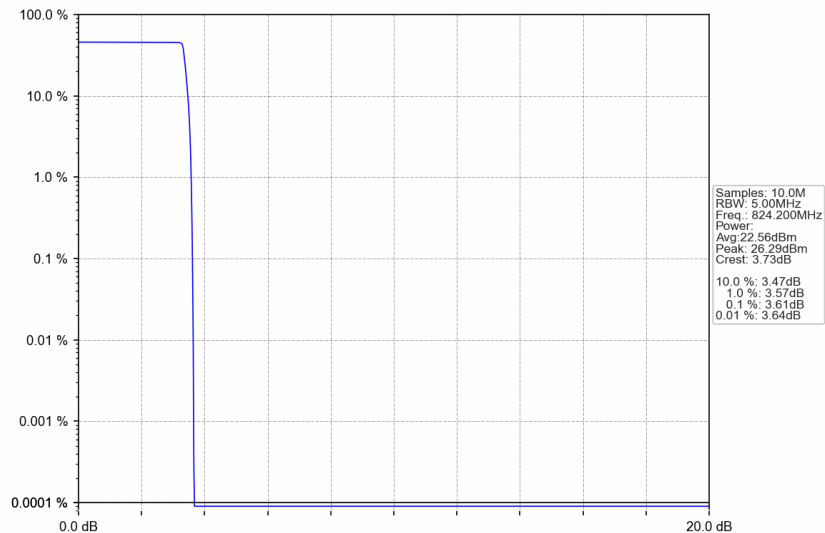
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GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



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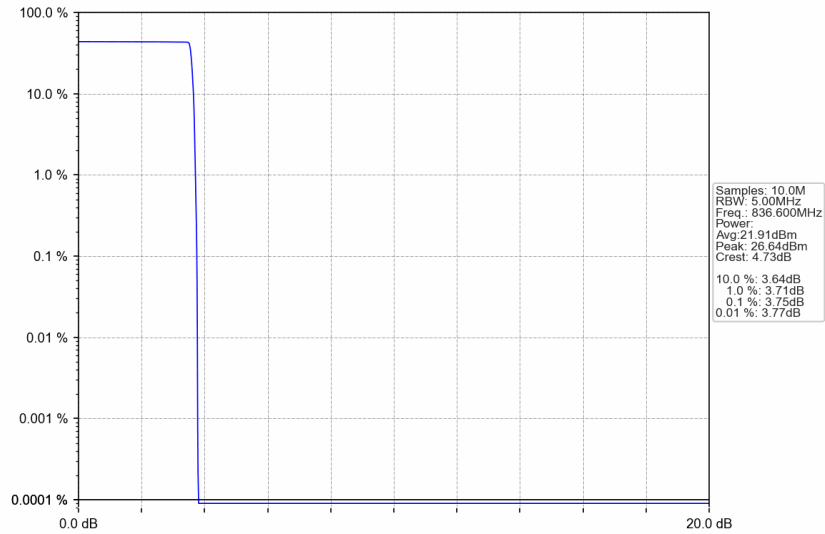
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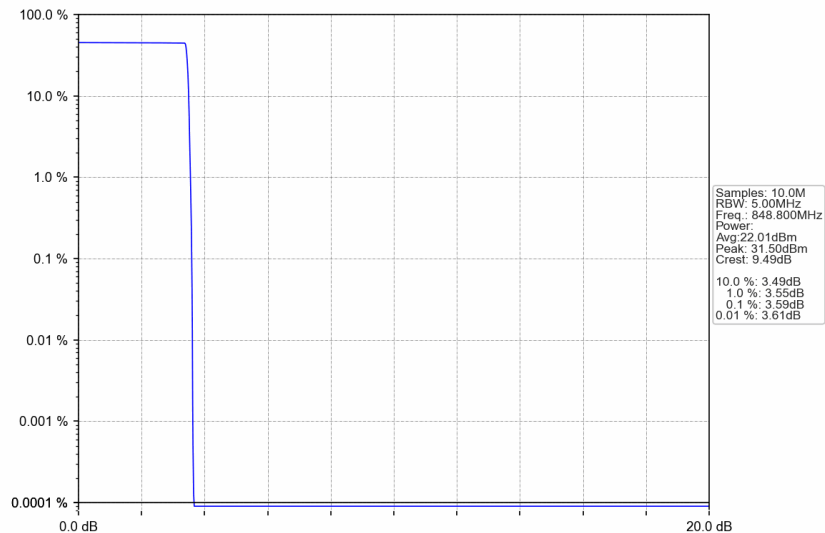
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GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



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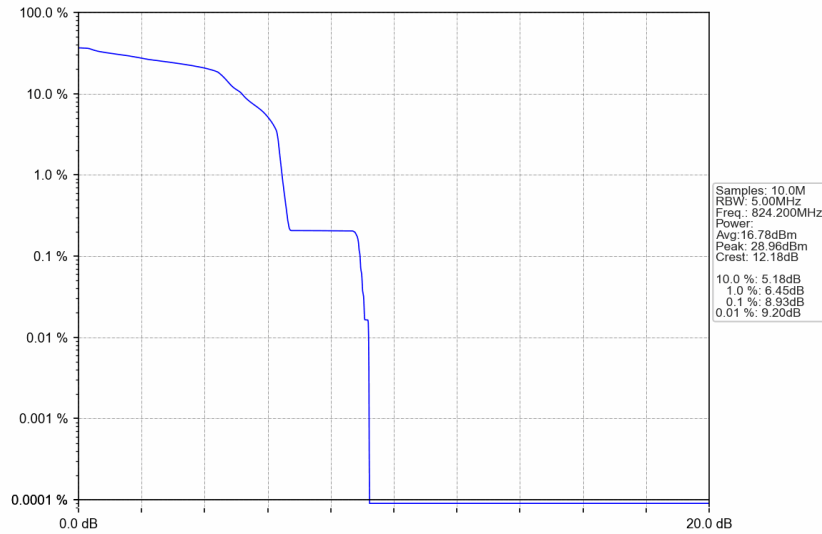
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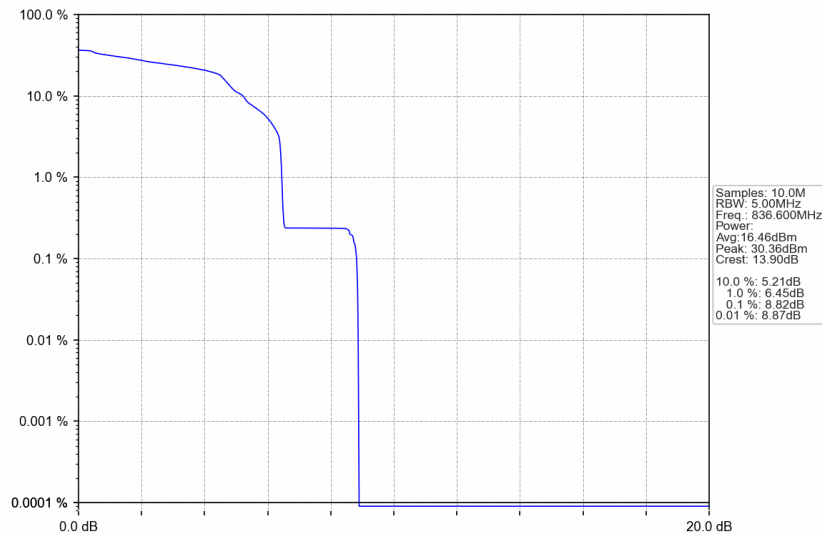
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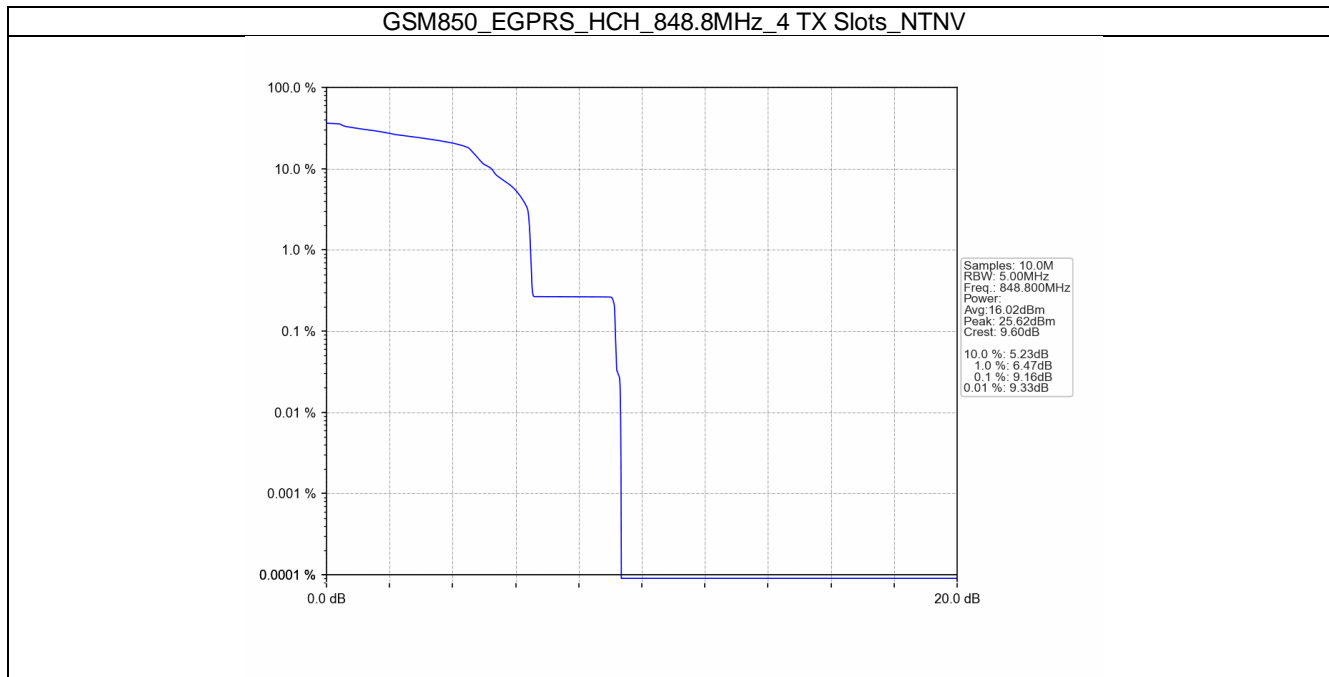
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5. Spurious Emission & Band Edges

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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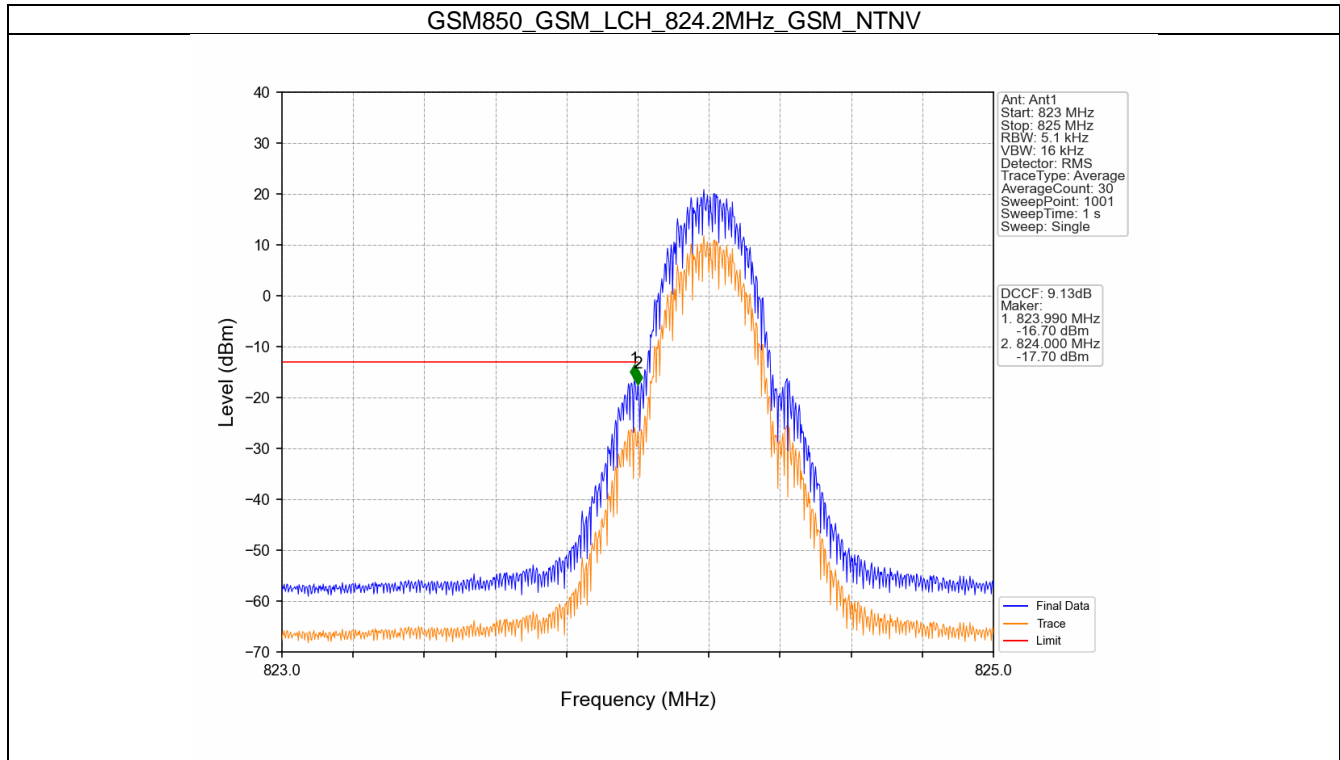
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5.1.2 Test Graph



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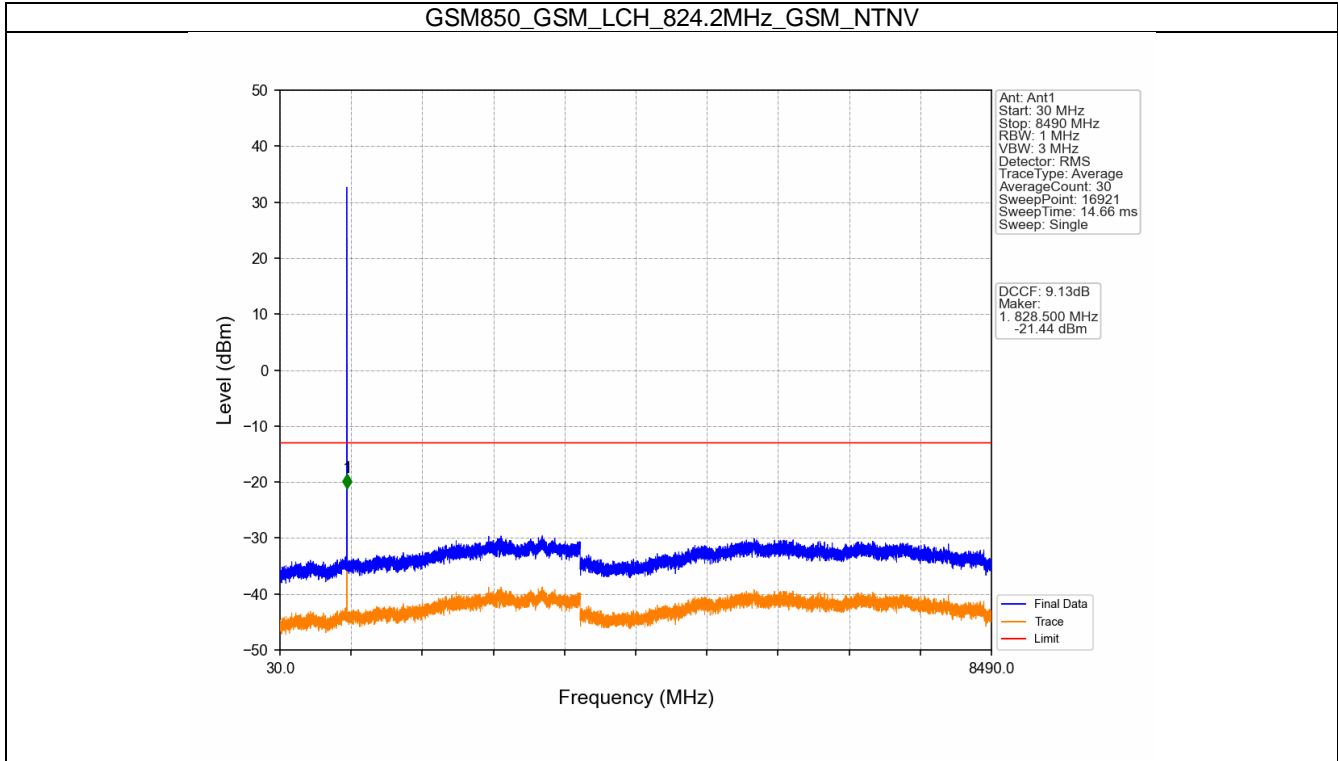


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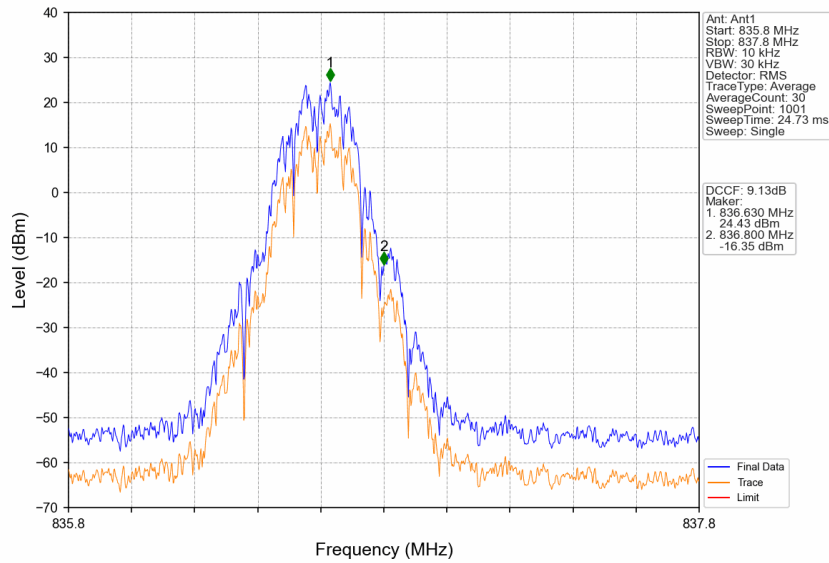
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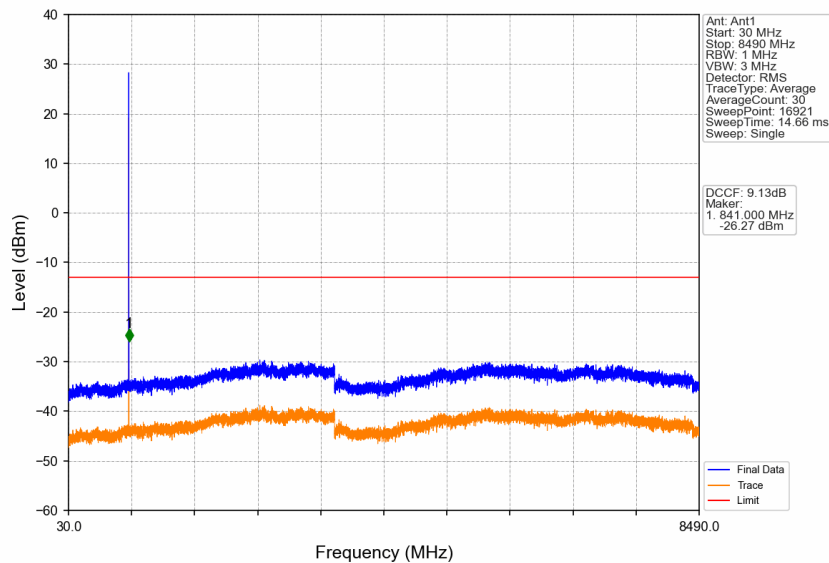
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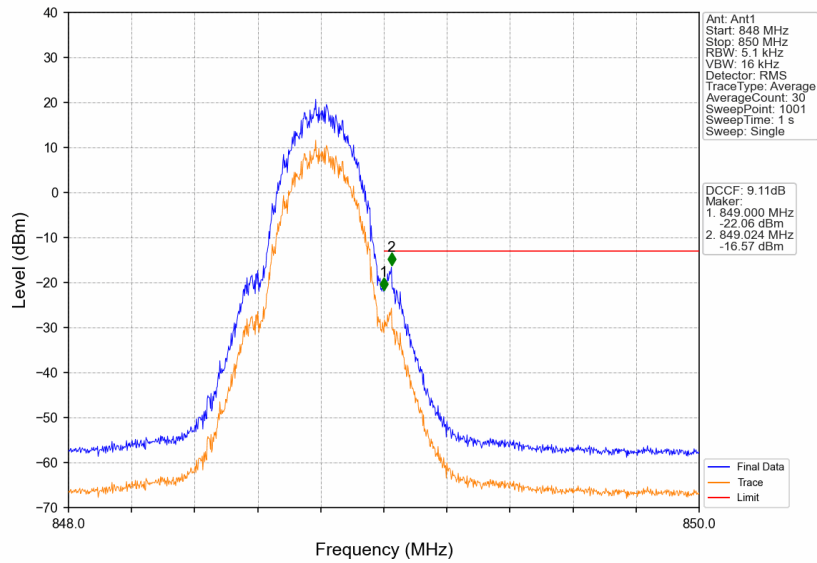
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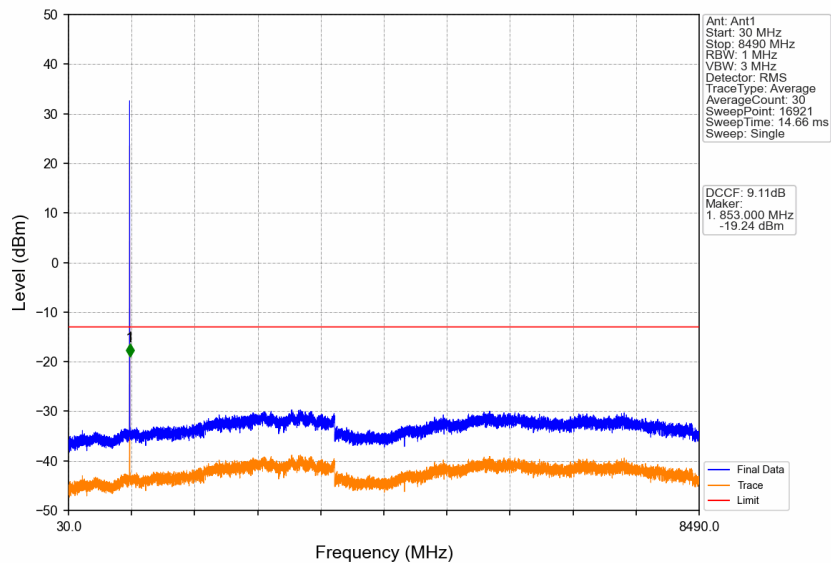
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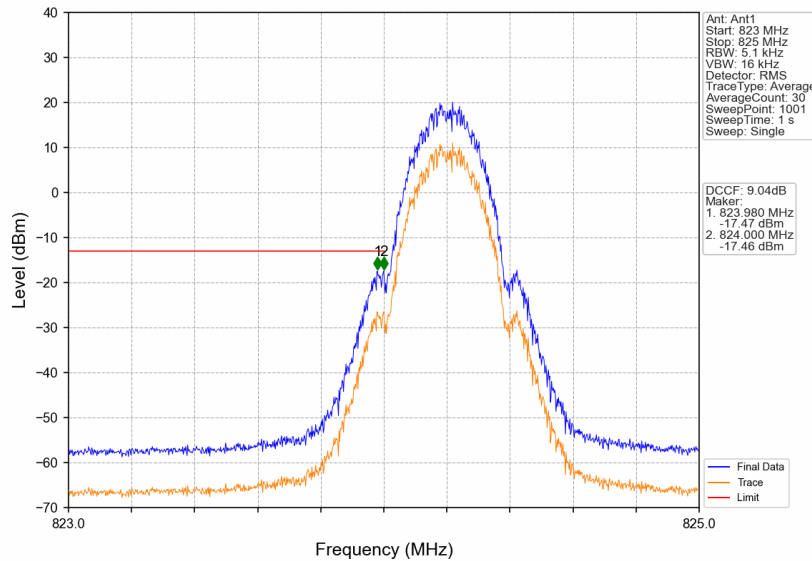
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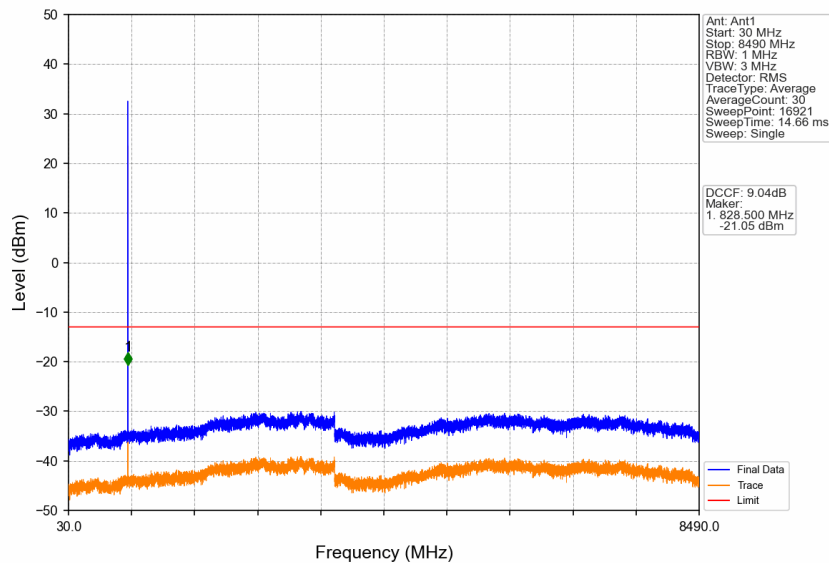
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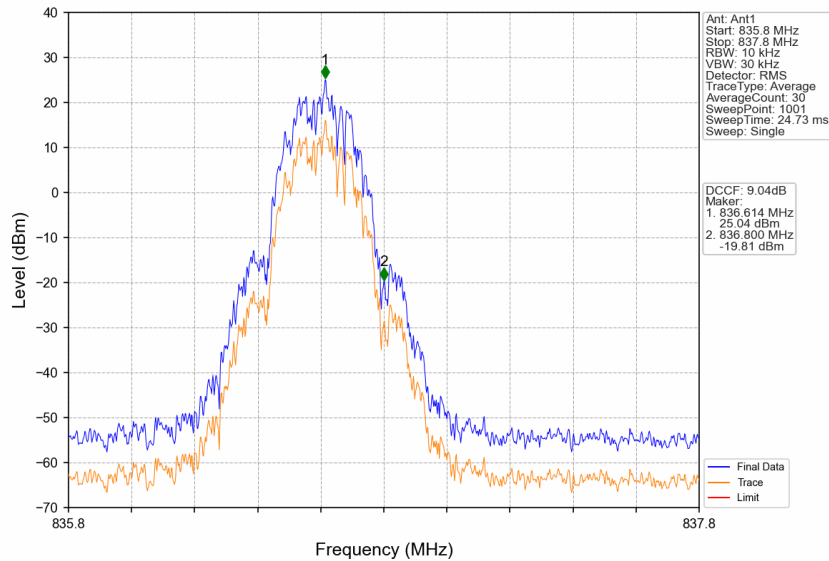
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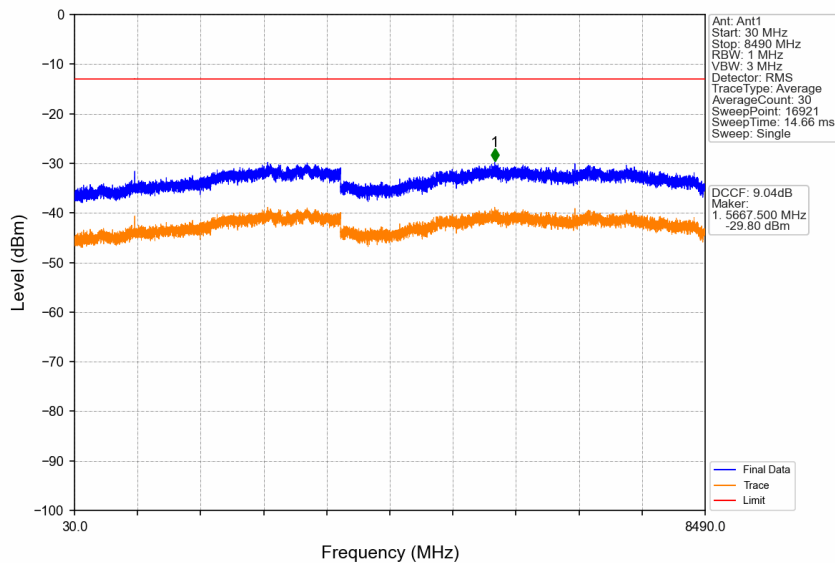
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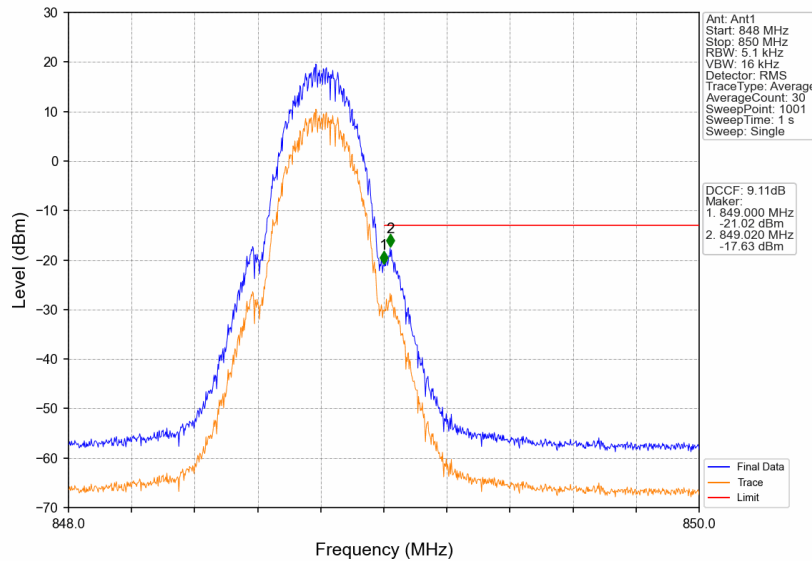
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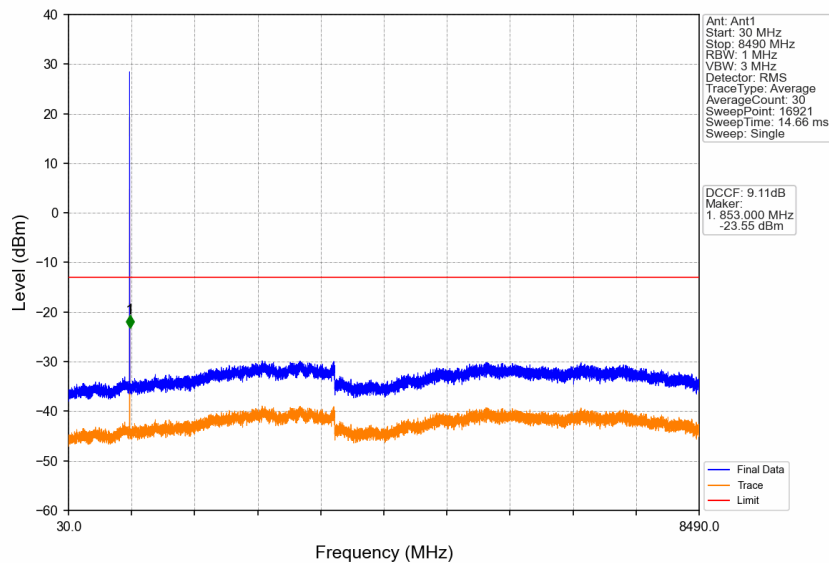
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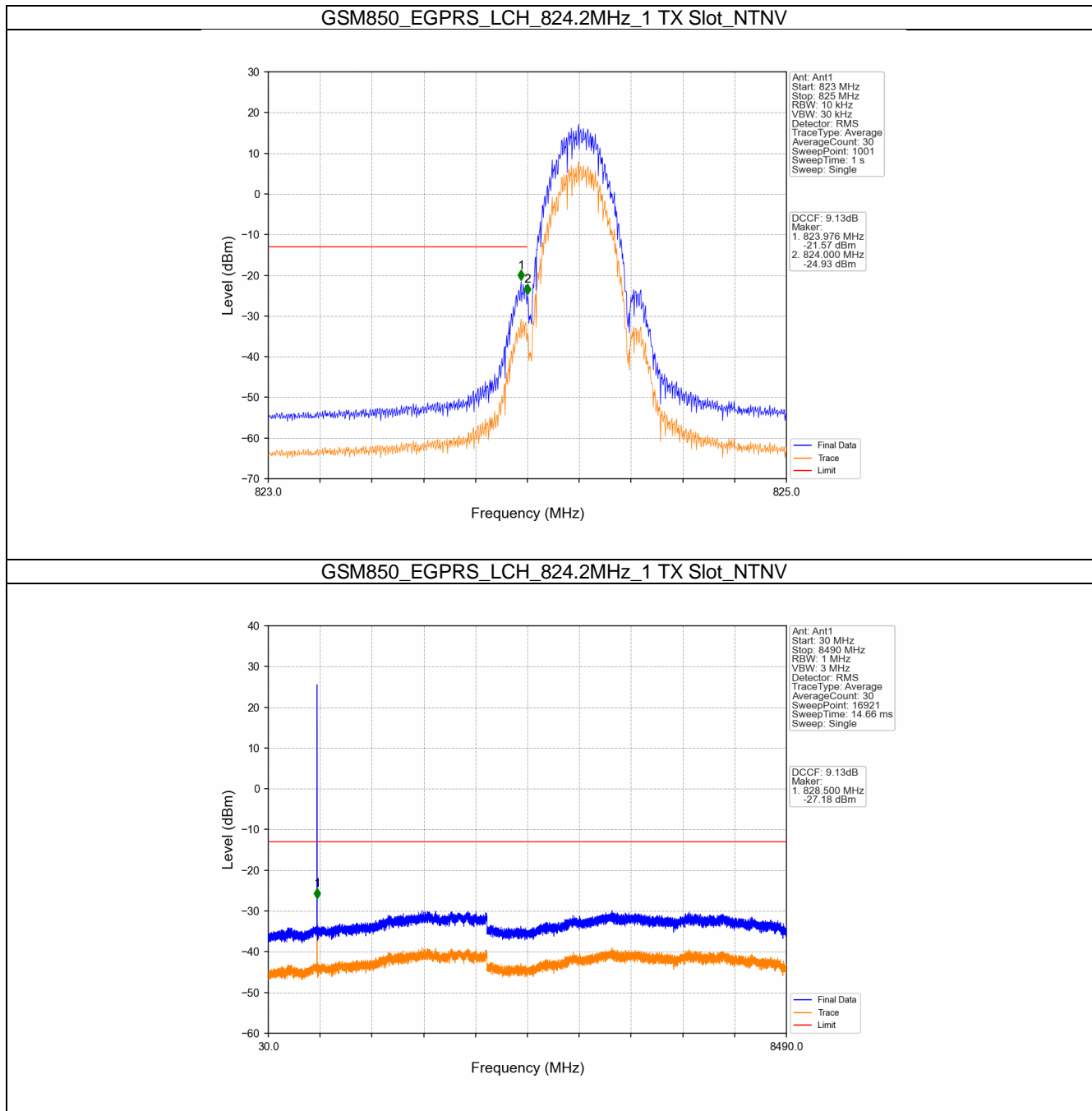
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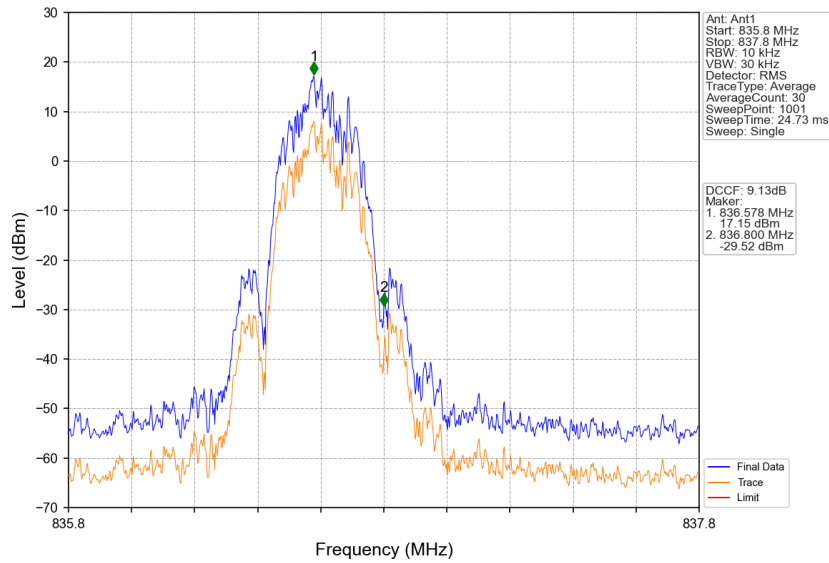
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Report No.: SZCR240400116001

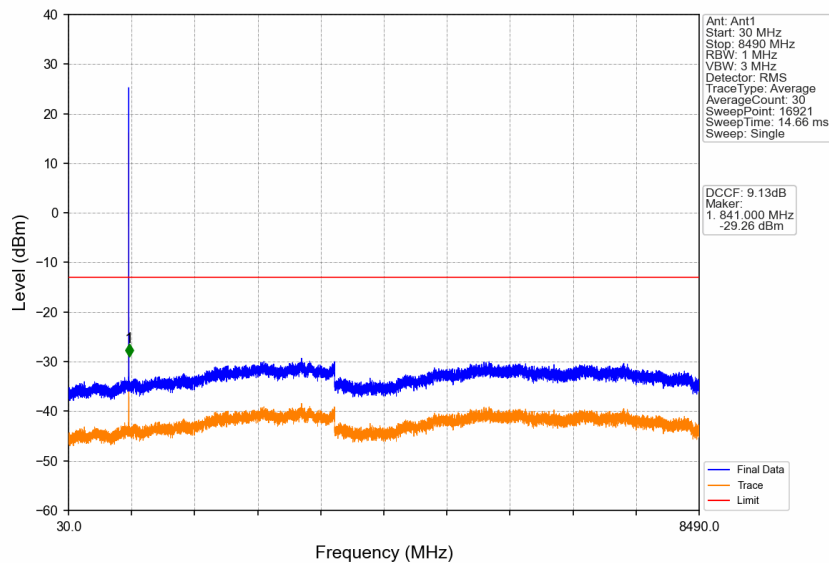
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



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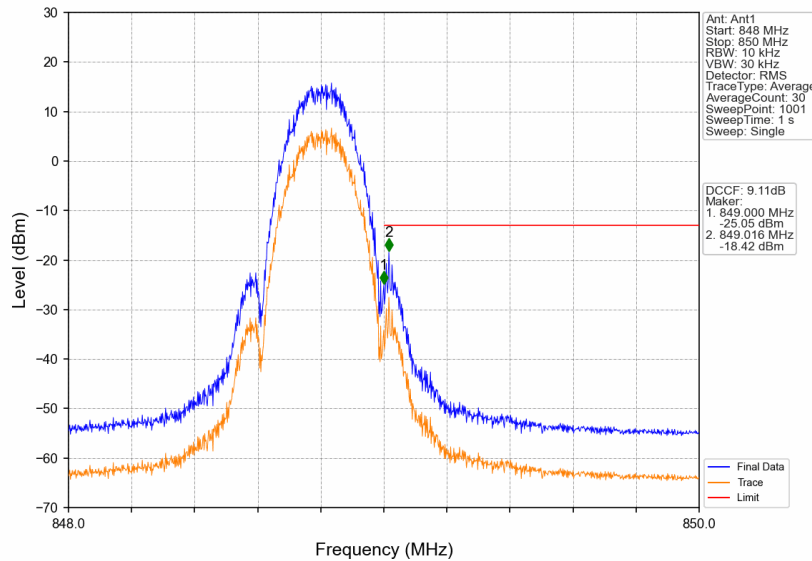
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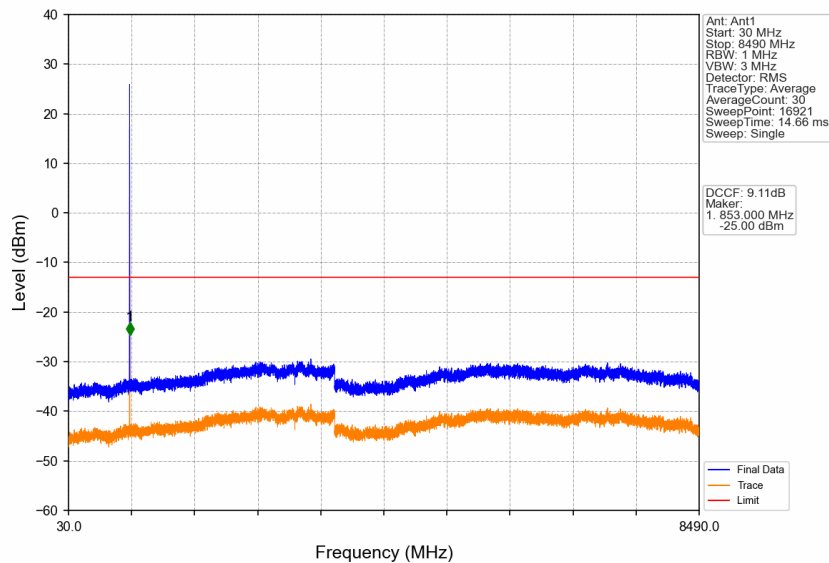
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GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV



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6. Field Strength of Spurious Radiation

Test Band = GSM850 ANT11_ TM1

Test Channel = low

Final Data List								
NO	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.0125	59.25	24.90	-48.85	-59.96	-13.00	46.96	Horizontal
2	2472.6000	45.08	27.33	-47.89	-70.74	-13.00	57.74	Horizontal
3	3296.8000	45.41	28.66	-47.16	-68.35	-13.00	55.35	Horizontal
4	4121.0000	45.06	29.67	-47.51	-68.04	-13.00	55.04	Horizontal
5	4945.2000	45.39	31.27	-46.98	-65.58	-13.00	52.58	Horizontal
6	5769.4000	45.54	32.49	-46.96	-64.19	-13.00	51.19	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dB μ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.0125	55.25	24.90	-48.85	-63.96	-13.00	50.96	Vertical
2	2472.6000	45.11	27.33	-47.89	-70.71	-13.00	57.71	Vertical
3	3296.8000	45.11	28.66	-47.16	-68.65	-13.00	55.65	Vertical
4	4121.0000	45.55	29.67	-47.51	-67.55	-13.00	54.55	Vertical
5	4945.2000	45.45	31.27	-46.98	-65.52	-13.00	52.52	Vertical
6	5769.4000	45.61	32.49	-46.96	-64.12	-13.00	51.12	Vertical



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Test Band = GSM850 ANT11_ TM1
Test Channel = mid

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673.2000	62.38	24.95	-48.81	-56.74	-13.00	43.74	Horizontal
2	2509.8000	54.49	27.42	-47.79	-61.14	-13.00	48.14	Horizontal
3	3346.4000	45.46	28.67	-47.25	-68.38	-13.00	55.38	Horizontal
4	4183.0000	45.57	29.76	-47.20	-67.13	-13.00	54.13	Horizontal
5	5019.6000	45.34	31.45	-46.97	-65.44	-13.00	52.44	Horizontal
6	5856.2000	44.98	32.46	-46.53	-64.35	-13.00	51.35	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673.2000	64.69	24.95	-48.81	-54.43	-13.00	41.43	Vertical
2	2509.8000	50.75	27.42	-47.79	-64.88	-13.00	51.88	Vertical
3	3346.4000	45.42	28.67	-47.25	-68.42	-13.00	55.42	Vertical
4	4183.0000	45.54	29.76	-47.20	-67.16	-13.00	54.16	Vertical
5	5019.6000	45.35	31.45	-46.97	-65.43	-13.00	52.43	Vertical
6	5856.2000	45.41	32.46	-46.53	-63.92	-13.00	50.92	Vertical



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Test Band = GSM850 ANT11_ TM1
Test Channel = high

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	59.28	25.00	-48.77	-59.75	-13.00	46.75	Horizontal
2	2546.4000	53.88	27.51	-47.90	-61.77	-13.00	48.77	Horizontal
3	3395.2000	45.37	28.68	-47.35	-68.56	-13.00	55.56	Horizontal
4	4244.0000	45.55	29.84	-47.10	-66.97	-13.00	53.97	Horizontal
5	5092.8000	45.02	31.62	-47.07	-65.69	-13.00	52.69	Horizontal
6	5941.6000	46.25	32.42	-46.51	-63.10	-13.00	50.10	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.3625	57.00	24.99	-48.77	-62.04	-13.00	49.04	Vertical
2	2546.4000	48.45	27.51	-47.90	-67.20	-13.00	54.20	Vertical
3	3395.2000	44.88	28.68	-47.35	-69.05	-13.00	56.05	Vertical
4	4244.0000	45.37	29.84	-47.10	-67.15	-13.00	54.15	Vertical
5	5092.8000	45.06	31.62	-47.07	-65.65	-13.00	52.65	Vertical
6	5941.6000	45.69	32.42	-46.51	-63.66	-13.00	50.66	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.

---End of Attachment---



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