



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

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Appendix B.1

GSM 850



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

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1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850_ERP

1.1.1 Test Result

Ant1

Band: GSM850										
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
	Network	Subset				Result	Limit			
NTNV	GSM	GSM	824.2	32.56	-4.20	26.21	<=38.45	Pass		
			836.6	32.73	-4.20	26.38	<=38.45	Pass		
			848.8	32.64	-4.20	26.29	<=38.45	Pass		
	GPRS	1 TX Slot	824.2	32.56	-4.20	26.21	<=38.45	Pass		
			2 TX Slots	824.2	30.56	-4.20	24.21	<=38.45	Pass	
			3 TX Slots	824.2	28.56	-4.20	22.21	<=38.45	Pass	
			4 TX Slots	824.2	27.53	-4.20	21.18	<=38.45	Pass	
			1 TX Slot	836.6	32.70	-4.20	26.35	<=38.45	Pass	
				2 TX Slots	836.6	30.72	-4.20	24.37	<=38.45	Pass
				3 TX Slots	836.6	28.72	-4.20	22.37	<=38.45	Pass
				4 TX Slots	836.6	27.69	-4.20	21.34	<=38.45	Pass
			1 TX Slot	848.8	32.58	-4.20	26.23	<=38.45	Pass	
				2 TX Slots	848.8	30.59	-4.20	24.24	<=38.45	Pass
				3 TX Slots	848.8	28.60	-4.20	22.25	<=38.45	Pass
				4 TX Slots	848.8	27.59	-4.20	21.24	<=38.45	Pass
	EGPRS	1 TX Slot		824.2	27.29	-4.20	20.94	<=38.45	Pass	
				2 TX Slots	824.2	24.64	-4.20	18.29	<=38.45	Pass
			3 TX Slots	824.2	22.42	-4.20	16.07	<=38.45	Pass	
			4 TX Slots	824.2	21.18	-4.20	14.83	<=38.45	Pass	
			1 TX Slot	836.6	27.55	-4.20	21.20	<=38.45	Pass	
				2 TX Slots	836.6	24.72	-4.20	18.37	<=38.45	Pass
				3 TX Slots	836.6	22.70	-4.20	16.35	<=38.45	Pass
				4 TX Slots	836.6	21.54	-4.20	15.19	<=38.45	Pass
			1 TX Slot	848.8	27.42	-4.20	21.07	<=38.45	Pass	
				2 TX Slots	848.8	24.87	-4.20	18.52	<=38.45	Pass
				3 TX Slots	848.8	22.57	-4.20	16.22	<=38.45	Pass
				4 TX Slots	848.8	21.32	-4.20	14.97	<=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	3.91	-5.216	-0.0063	-2.5 to 2.5	Pass
			3.5	-0.579	-0.0007	-2.5 to 2.5	Pass
			4.5	1.093	0.0013	-2.5 to 2.5	Pass
		-30	3.91	3.536	0.0043	-2.5 to 2.5	Pass
		-20	3.91	6.069	0.0074	-2.5 to 2.5	Pass
		-10	3.91	1.593	0.0019	-2.5 to 2.5	Pass
		0	3.91	2.025	0.0025	-2.5 to 2.5	Pass
		10	3.91	-1.567	-0.0019	-2.5 to 2.5	Pass
		30	3.91	1.493	0.0018	-2.5 to 2.5	Pass
		40	3.91	0.796	0.0010	-2.5 to 2.5	Pass
	50	3.91	0.260	0.0003	-2.5 to 2.5	Pass	
	836.6	20	3.91	0.187	0.0002	-2.5 to 2.5	Pass
			3.5	-0.477	-0.0006	-2.5 to 2.5	Pass
			4.5	4.647	0.0056	-2.5 to 2.5	Pass
		-30	3.91	1.294	0.0015	-2.5 to 2.5	Pass
		-20	3.91	0.544	0.0007	-2.5 to 2.5	Pass
		-10	3.91	-0.578	-0.0007	-2.5 to 2.5	Pass
		0	3.91	1.234	0.0015	-2.5 to 2.5	Pass
		10	3.91	-2.899	-0.0035	-2.5 to 2.5	Pass
		30	3.91	-4.381	-0.0052	-2.5 to 2.5	Pass
		40	3.91	-9.026	-0.0108	-2.5 to 2.5	Pass
	50	3.91	-7.418	-0.0089	-2.5 to 2.5	Pass	
	848.8	20	3.91	-2.088	-0.0025	-2.5 to 2.5	Pass
			3.5	-0.599	-0.0007	-2.5 to 2.5	Pass
			4.5	-2.248	-0.0026	-2.5 to 2.5	Pass
		-30	3.91	-1.702	-0.0020	-2.5 to 2.5	Pass
		-20	3.91	-3.213	-0.0038	-2.5 to 2.5	Pass
		-10	3.91	-4.930	-0.0058	-2.5 to 2.5	Pass
		0	3.91	-3.626	-0.0043	-2.5 to 2.5	Pass
		10	3.91	-7.276	-0.0086	-2.5 to 2.5	Pass
30		3.91	-5.421	-0.0064	-2.5 to 2.5	Pass	
40		3.91	-2.449	-0.0029	-2.5 to 2.5	Pass	
50	3.91	2.515	0.0030	-2.5 to 2.5	Pass		
GPRS	824.2	20	3.91	-5.817	-0.0071	-2.5 to 2.5	Pass
			3.5	0.531	0.0006	-2.5 to 2.5	Pass
			4.5	-6.553	-0.0080	-2.5 to 2.5	Pass
		-30	3.91	0.956	0.0012	-2.5 to 2.5	Pass
		-20	3.91	-0.441	-0.0005	-2.5 to 2.5	Pass
		-10	3.91	-0.289	-0.0004	-2.5 to 2.5	Pass
		0	3.91	-2.719	-0.0033	-2.5 to 2.5	Pass
		10	3.91	-1.587	-0.0019	-2.5 to 2.5	Pass
30	3.91	0.169	0.0002	-2.5 to 2.5	Pass		



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		40	3.91	-1.558	-0.0019	-2.5 to 2.5	Pass
		50	3.91	-2.388	-0.0029	-2.5 to 2.5	Pass
	836.6	20	3.91	0.080	0.0001	-2.5 to 2.5	Pass
			3.5	-3.391	-0.0041	-2.5 to 2.5	Pass
			4.5	-2.757	-0.0033	-2.5 to 2.5	Pass
		-30	3.91	-0.193	-0.0002	-2.5 to 2.5	Pass
		-20	3.91	-3.282	-0.0039	-2.5 to 2.5	Pass
		-10	3.91	-3.734	-0.0045	-2.5 to 2.5	Pass
		0	3.91	-0.771	-0.0009	-2.5 to 2.5	Pass
		10	3.91	-1.841	-0.0022	-2.5 to 2.5	Pass
		30	3.91	-5.993	-0.0072	-2.5 to 2.5	Pass
		40	3.91	-4.605	-0.0055	-2.5 to 2.5	Pass
	50	3.91	-1.567	-0.0019	-2.5 to 2.5	Pass	
	848.8	20	3.91	-3.499	-0.0041	-2.5 to 2.5	Pass
			3.5	-4.513	-0.0053	-2.5 to 2.5	Pass
			4.5	-4.213	-0.0050	-2.5 to 2.5	Pass
		-30	3.91	-1.588	-0.0019	-2.5 to 2.5	Pass
		-20	3.91	-3.755	-0.0044	-2.5 to 2.5	Pass
		-10	3.91	-5.822	-0.0069	-2.5 to 2.5	Pass
		0	3.91	-2.439	-0.0029	-2.5 to 2.5	Pass
10		3.91	-1.920	-0.0023	-2.5 to 2.5	Pass	
30		3.91	-3.800	-0.0045	-2.5 to 2.5	Pass	
40		3.91	-4.506	-0.0053	-2.5 to 2.5	Pass	
50	3.91	-5.889	-0.0069	-2.5 to 2.5	Pass		
EGPRS	824.2	20	3.91	-19.700	-0.0239	-2.5 to 2.5	Pass
			3.5	-15.641	-0.0190	-2.5 to 2.5	Pass
			4.5	-12.969	-0.0157	-2.5 to 2.5	Pass
		-30	3.91	-16.095	-0.0195	-2.5 to 2.5	Pass
		-20	3.91	-13.591	-0.0165	-2.5 to 2.5	Pass
		-10	3.91	-17.576	-0.0213	-2.5 to 2.5	Pass
		0	3.91	-10.928	-0.0133	-2.5 to 2.5	Pass
		10	3.91	-14.771	-0.0179	-2.5 to 2.5	Pass
		30	3.91	-16.889	-0.0205	-2.5 to 2.5	Pass
		40	3.91	-13.043	-0.0158	-2.5 to 2.5	Pass
	50	3.91	-11.720	-0.0142	-2.5 to 2.5	Pass	
	836.6	20	3.91	-15.625	-0.0187	-2.5 to 2.5	Pass
			3.5	-16.583	-0.0198	-2.5 to 2.5	Pass
			4.5	-16.250	-0.0194	-2.5 to 2.5	Pass
		-30	3.91	-18.622	-0.0223	-2.5 to 2.5	Pass
		-20	3.91	-14.691	-0.0176	-2.5 to 2.5	Pass
		-10	3.91	-16.653	-0.0199	-2.5 to 2.5	Pass
		0	3.91	-13.090	-0.0156	-2.5 to 2.5	Pass
		10	3.91	-16.503	-0.0197	-2.5 to 2.5	Pass
		30	3.91	-13.132	-0.0157	-2.5 to 2.5	Pass
40		3.91	-17.608	-0.0210	-2.5 to 2.5	Pass	
50	3.91	-13.405	-0.0160	-2.5 to 2.5	Pass		
848.8	20	3.91	-14.010	-0.0165	-2.5 to 2.5	Pass	
		3.5	-15.977	-0.0188	-2.5 to 2.5	Pass	
		4.5	-16.679	-0.0197	-2.5 to 2.5	Pass	
	-30	3.91	-17.076	-0.0201	-2.5 to 2.5	Pass	
	-20	3.91	-15.500	-0.0183	-2.5 to 2.5	Pass	
	-10	3.91	-20.026	-0.0236	-2.5 to 2.5	Pass	
	0	3.91	-15.552	-0.0183	-2.5 to 2.5	Pass	
	10	3.91	-22.601	-0.0266	-2.5 to 2.5	Pass	



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		30	3.91	-15.092	-0.0178	-2.5 to 2.5	Pass
		40	3.91	-19.112	-0.0225	-2.5 to 2.5	Pass
		50	3.91	-15.286	-0.0180	-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	0.239	/	Pass
			848.8	0.244	/	Pass
	GPRS	1 TX Slot	824.2	0.240	/	Pass
			836.6	0.246	/	Pass
			848.8	0.246	/	Pass
	EGPRS	1 TX Slot	824.2	0.231	/	Pass
			836.6	0.245	/	Pass
			848.8	0.238	/	Pass



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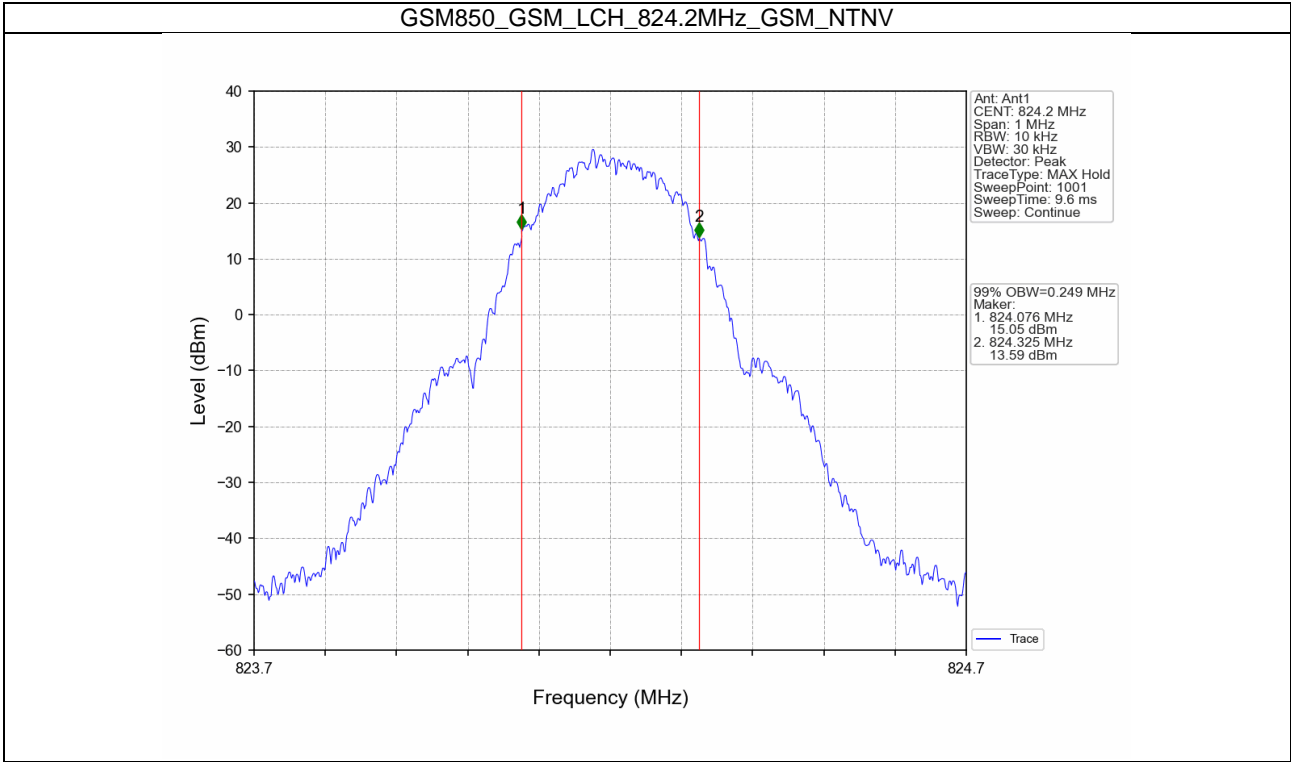
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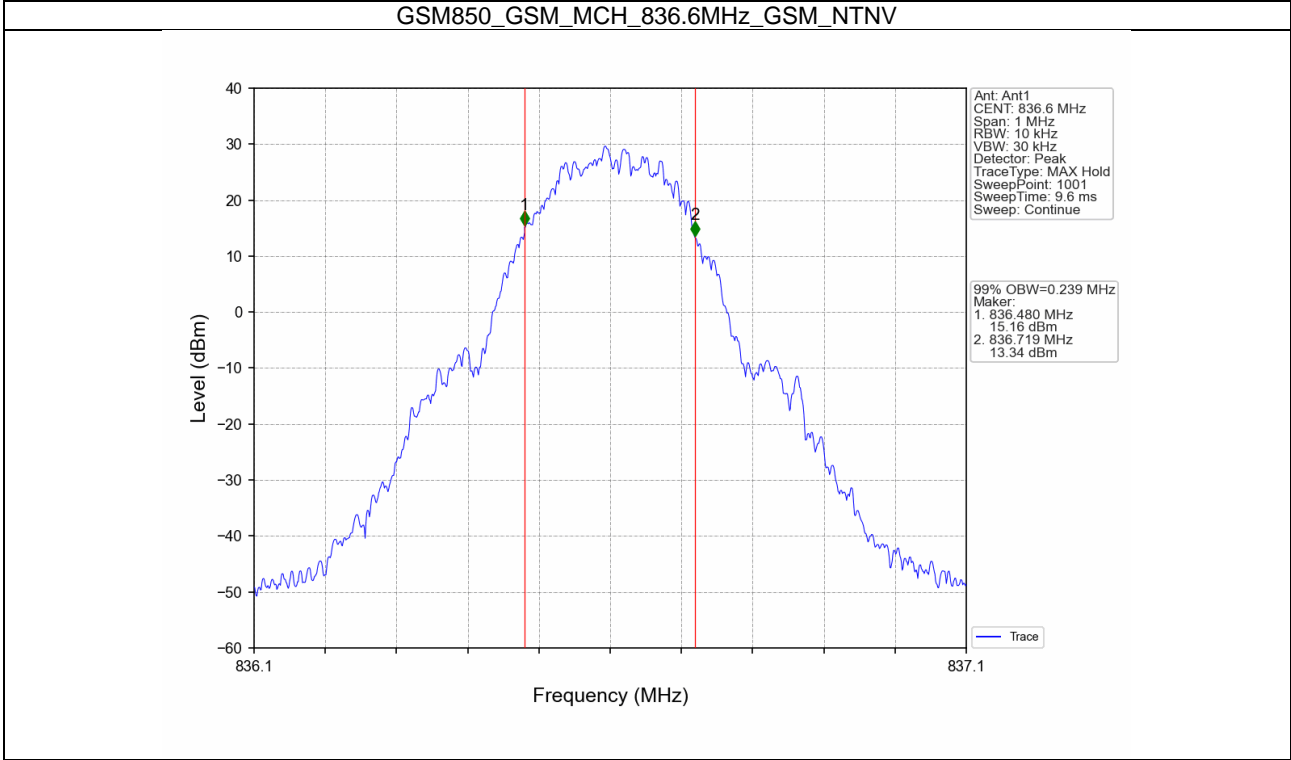
3.1.2 Test Graph



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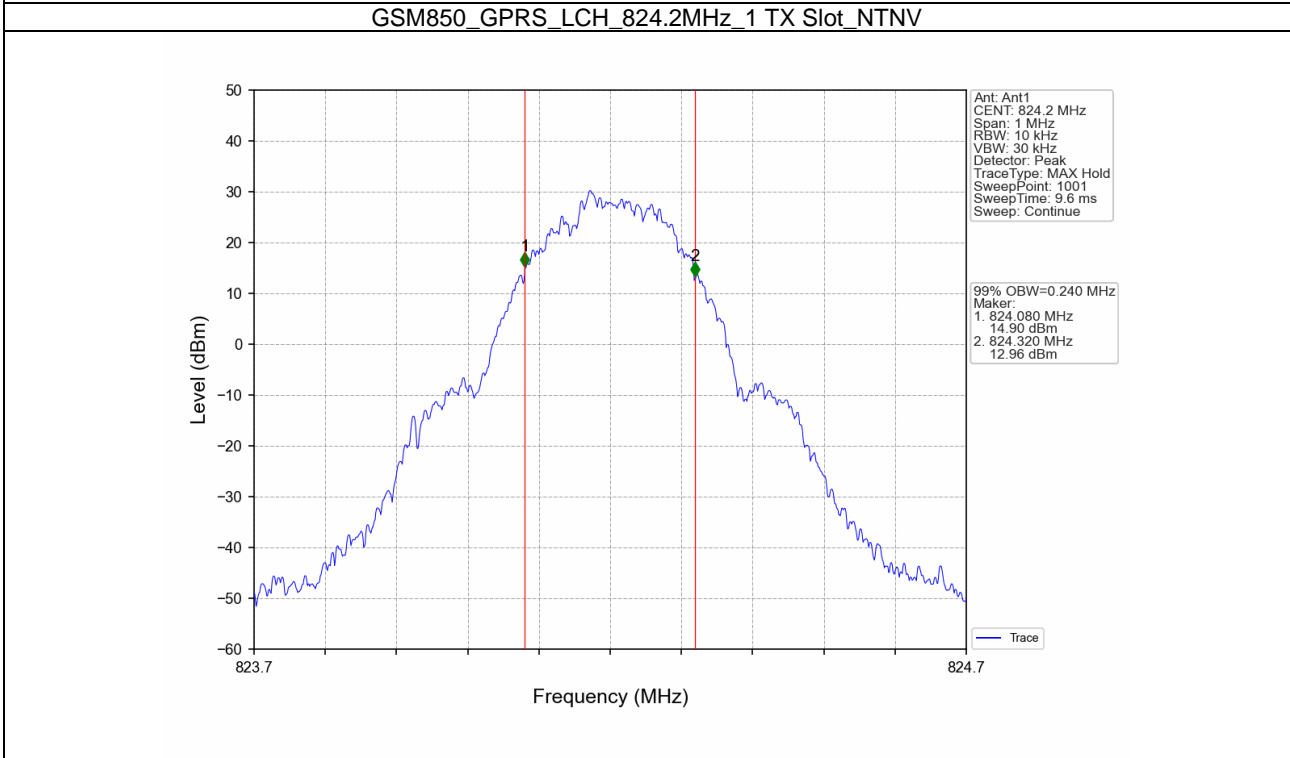
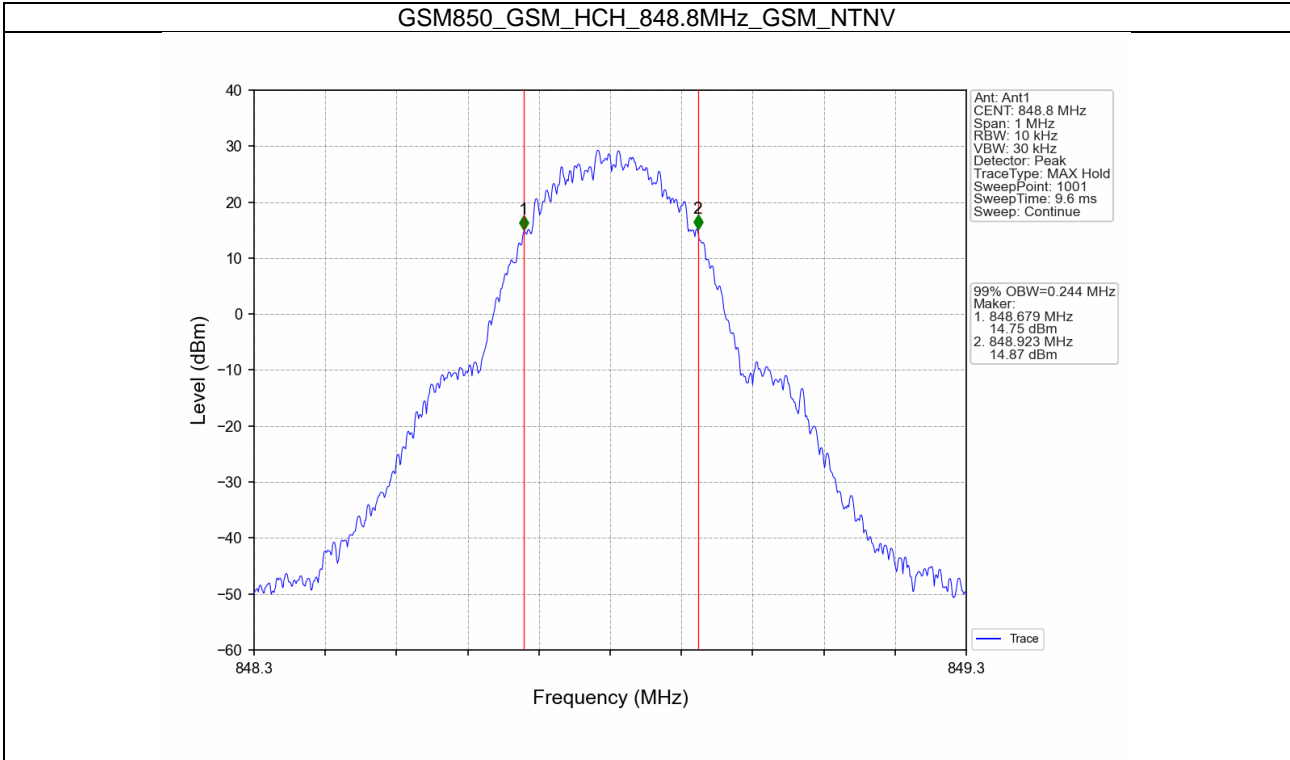
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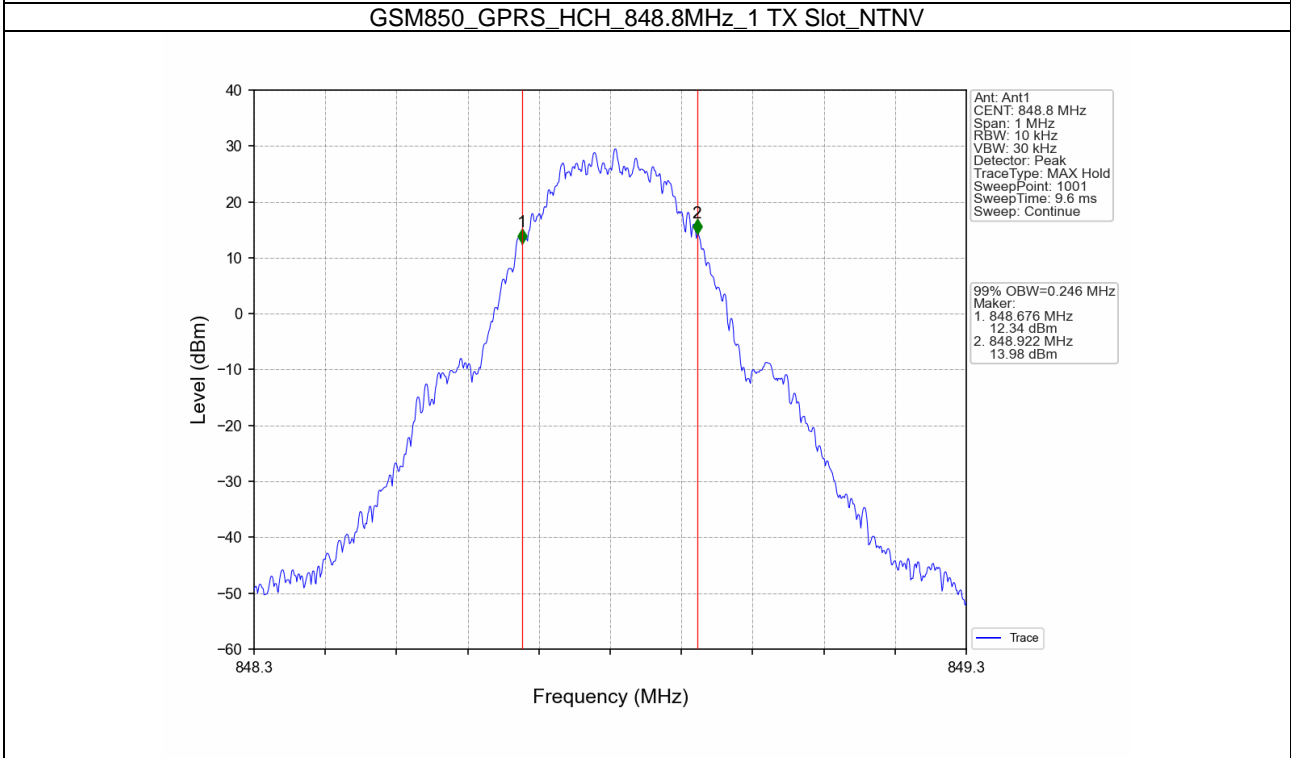
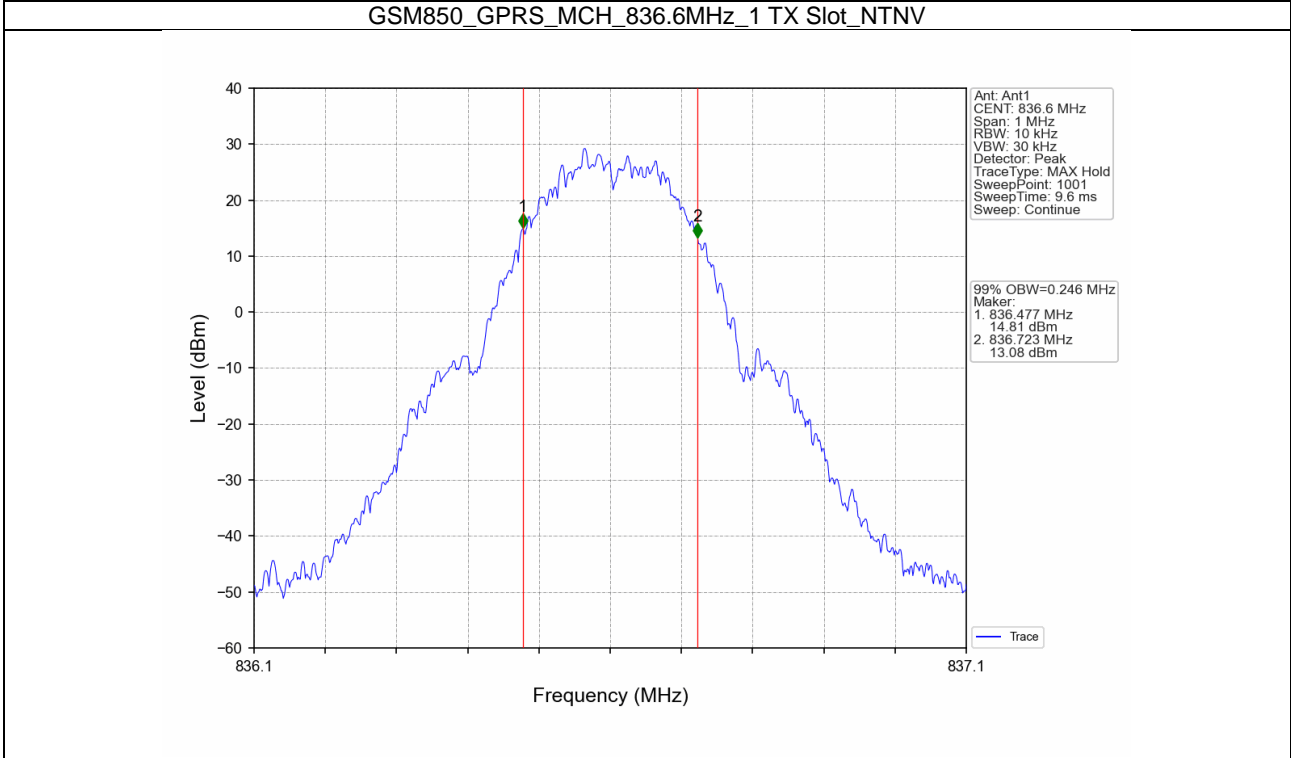


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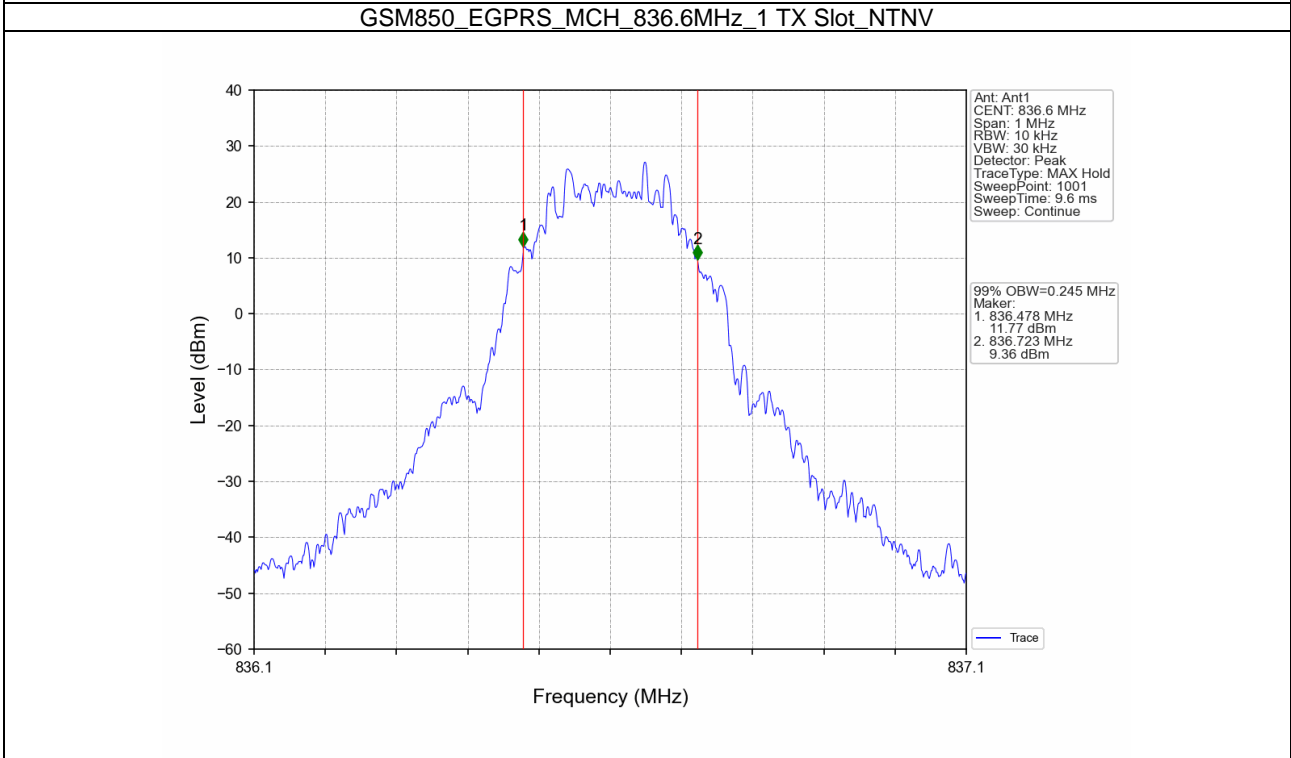
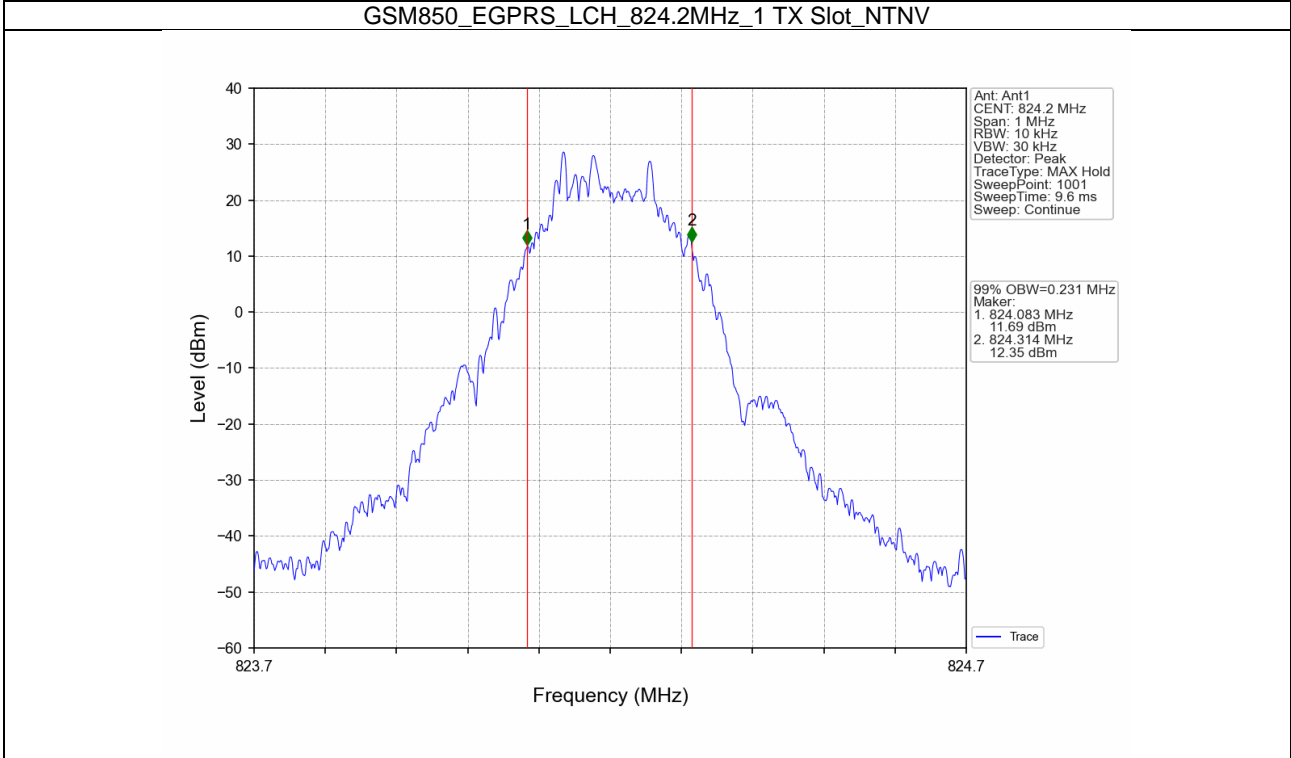
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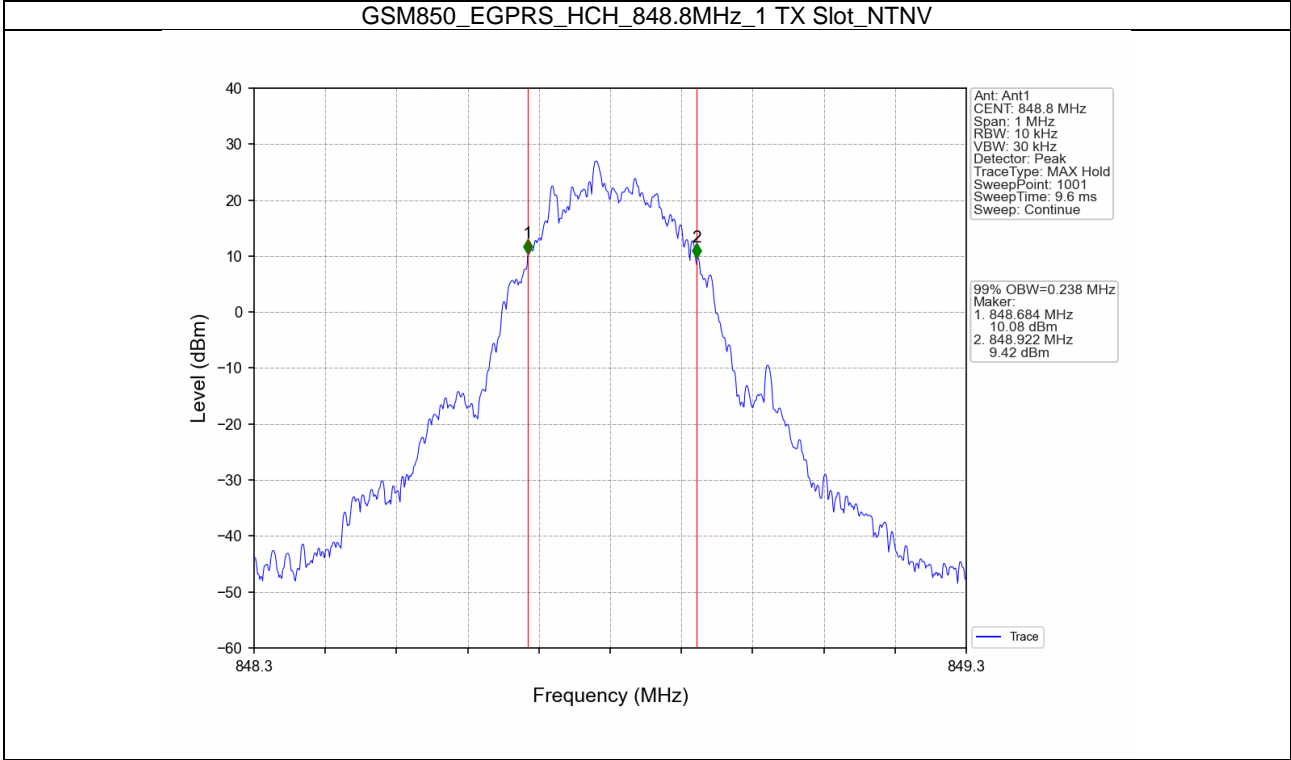


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3.2 GSM850_XDB

3.2.1 Test Result

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.318	/	Pass
			836.6	0.310	/	Pass
			848.8	0.312	/	Pass
	GPRS	1 TX Slot	824.2	0.313	/	Pass
			836.6	0.316	/	Pass
			848.8	0.316	/	Pass
	EGPRS	1 TX Slot	824.2	0.288	/	Pass
			836.6	0.314	/	Pass
			848.8	0.298	/	Pass



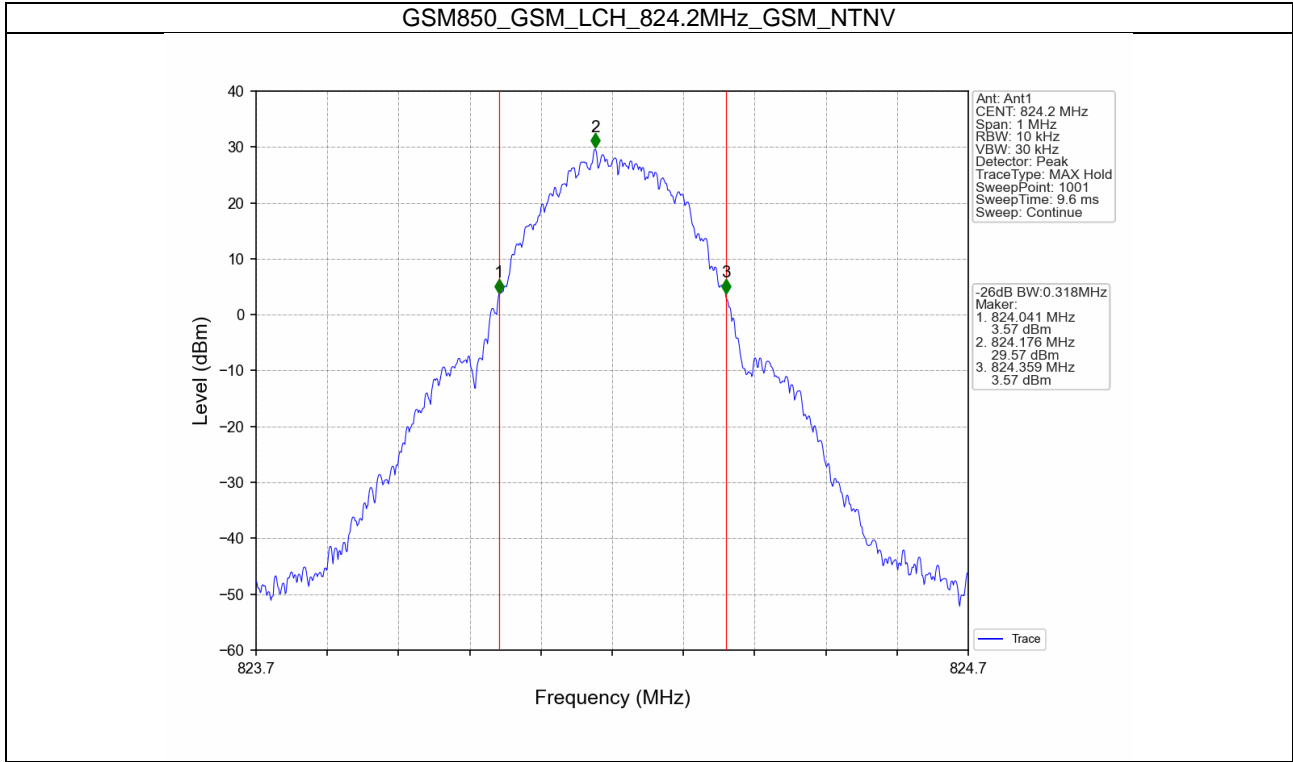
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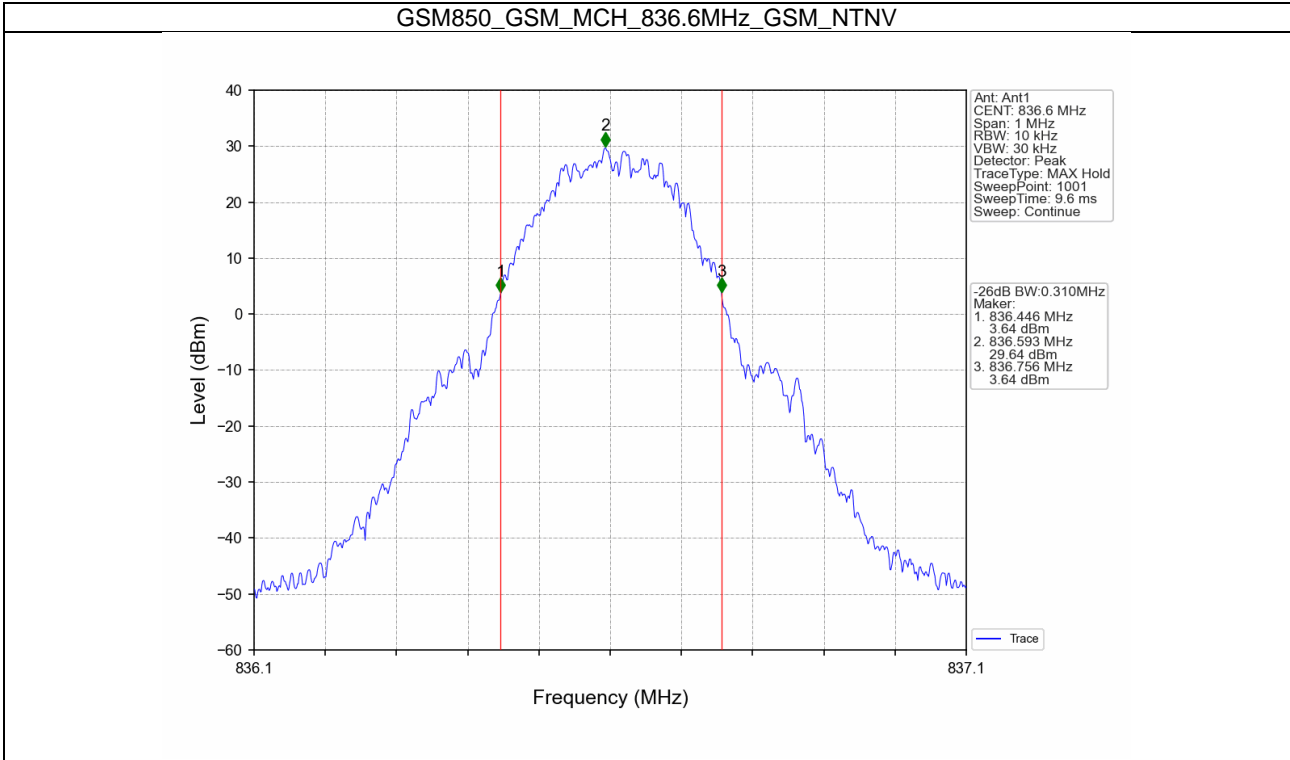
3.2.2 Test Graph



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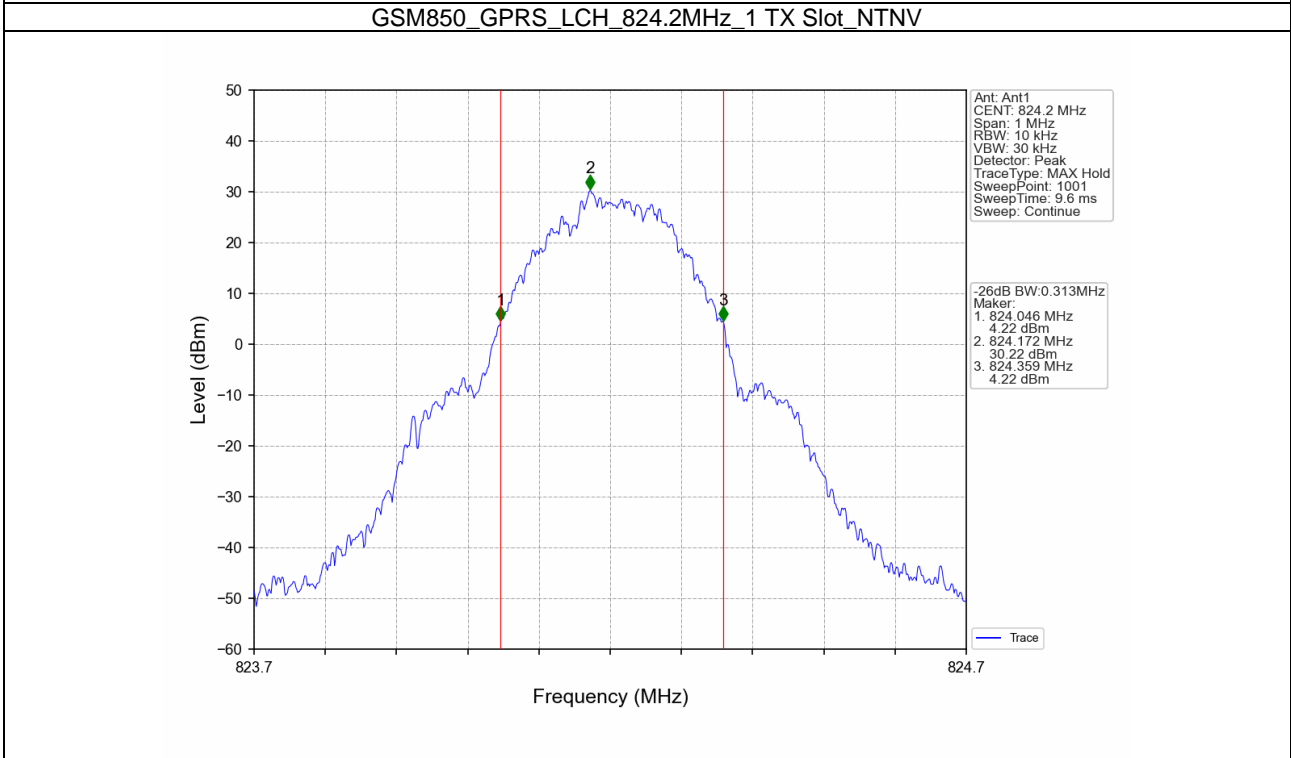
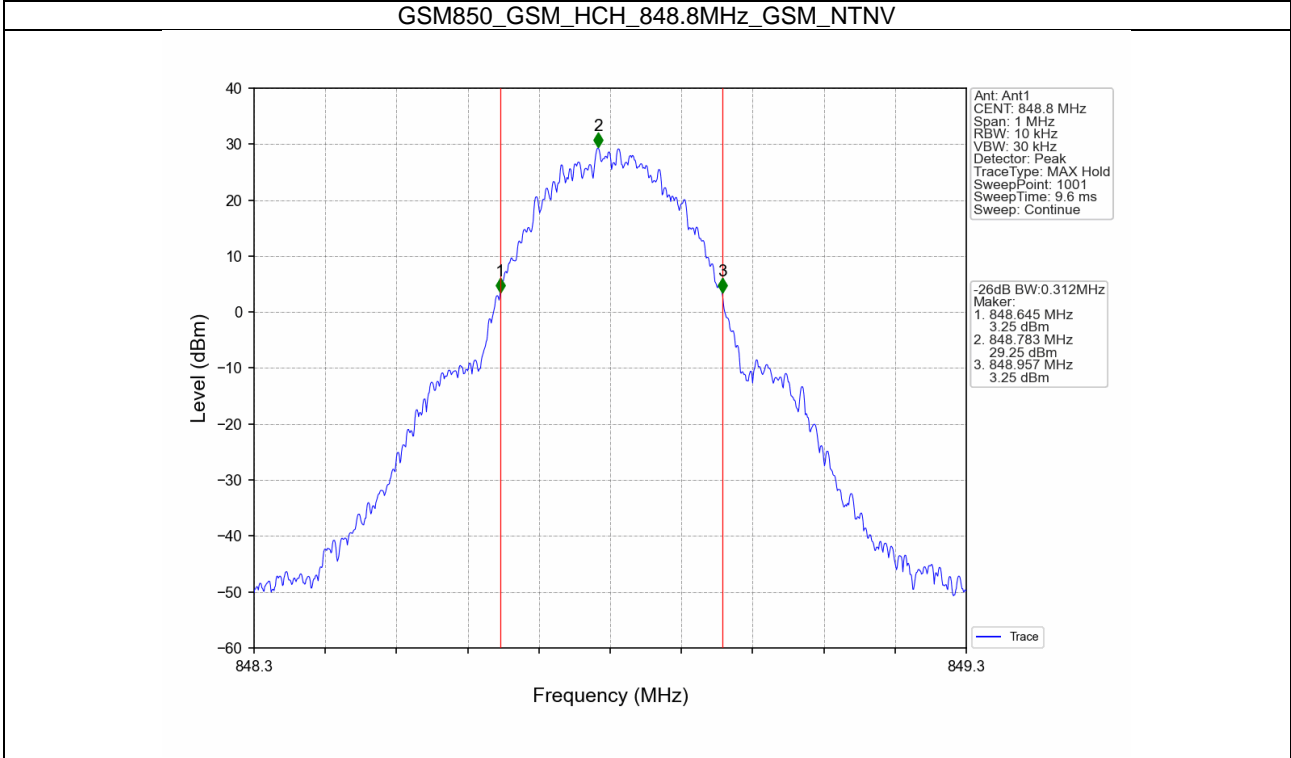
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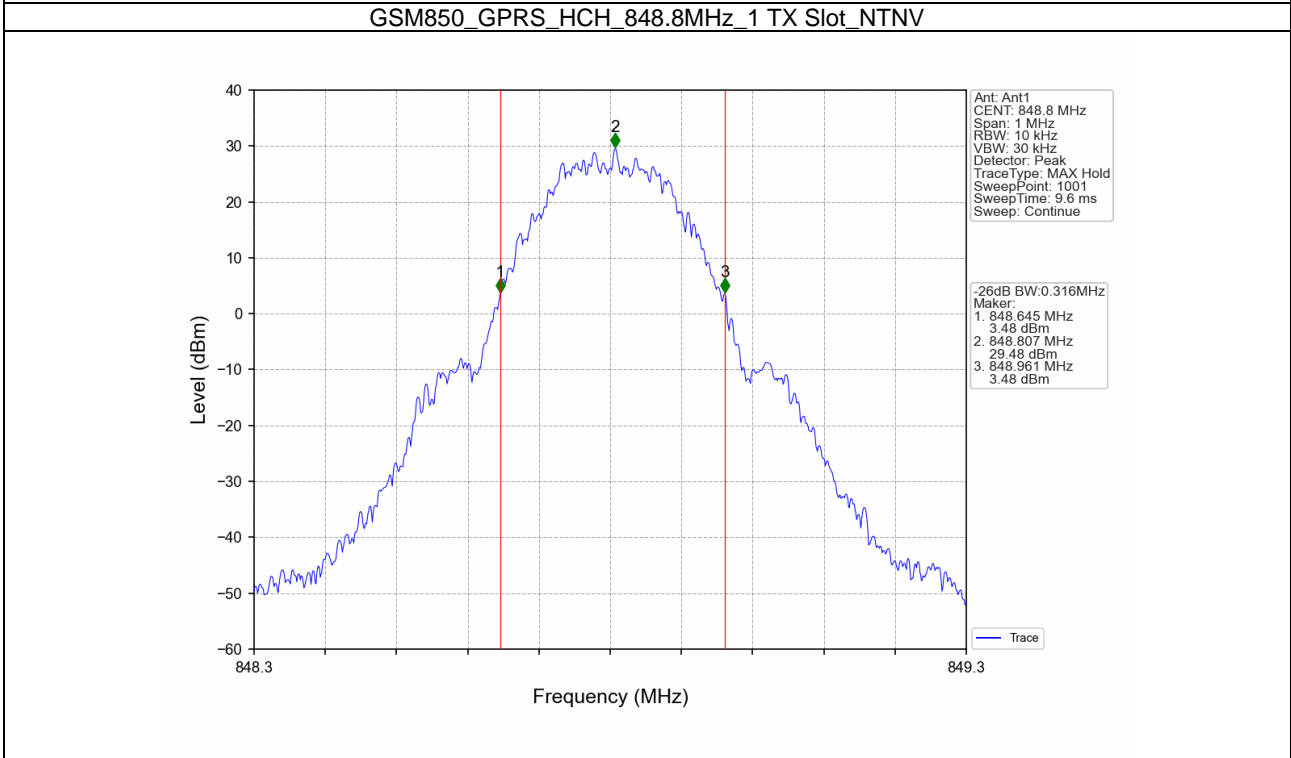
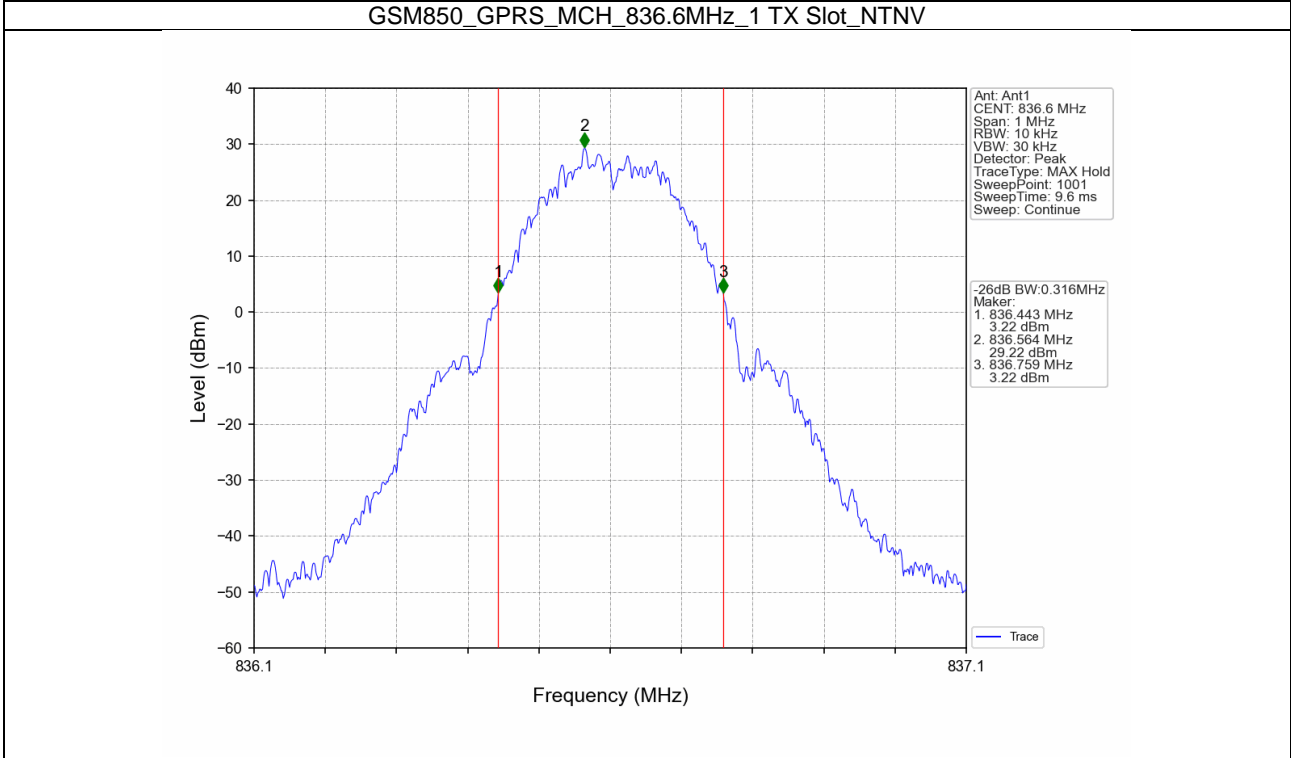
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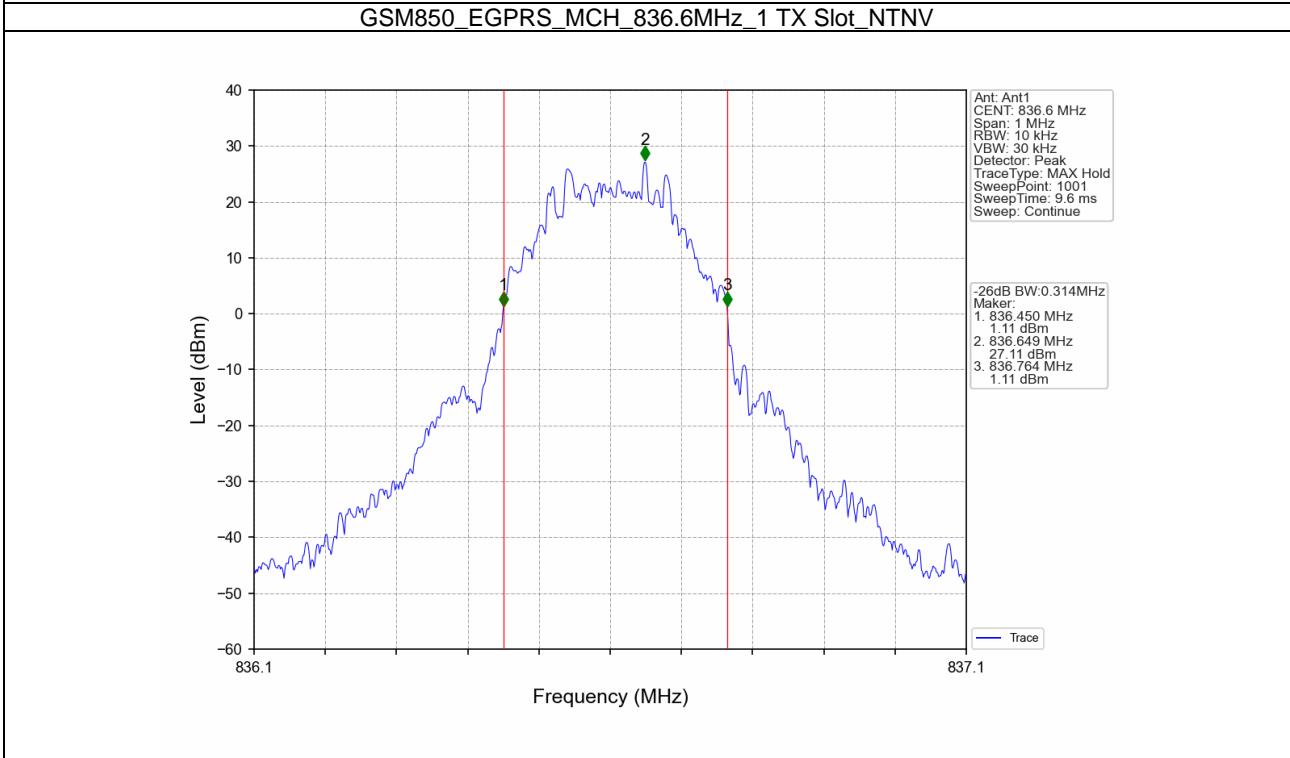
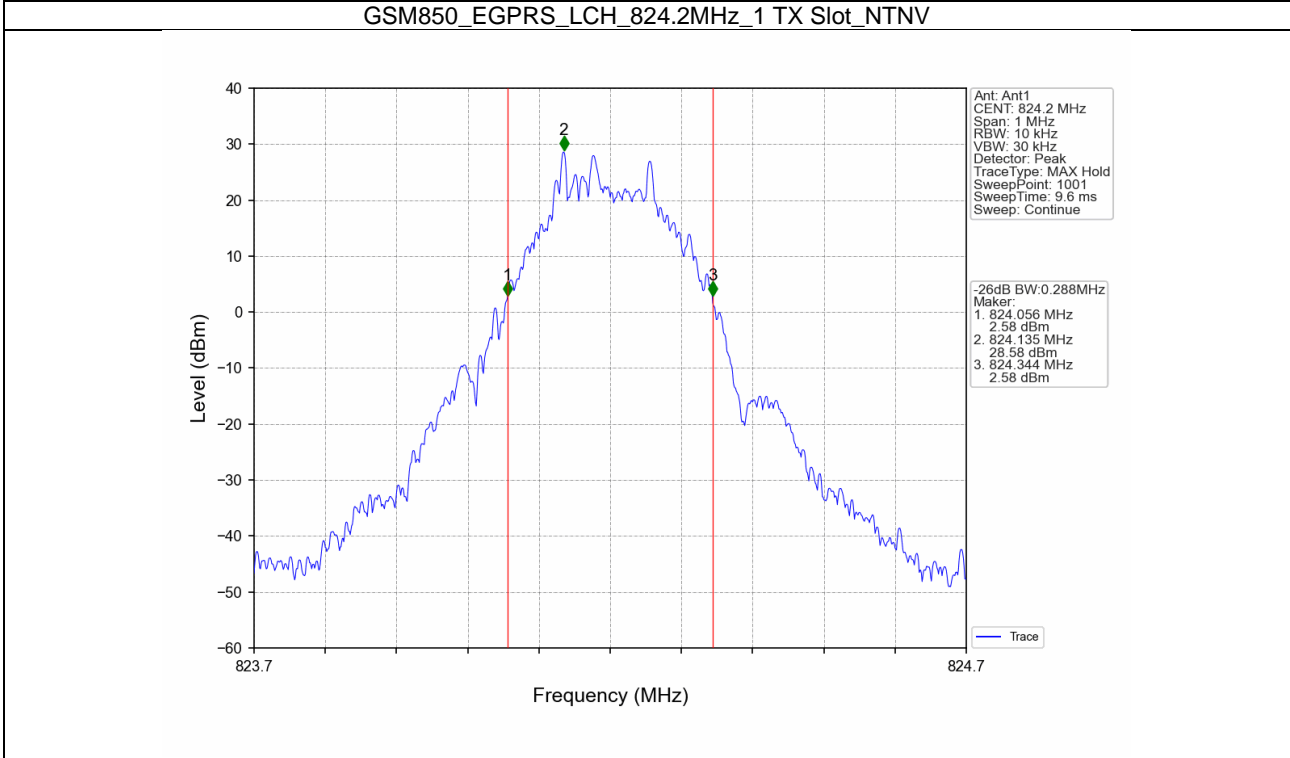
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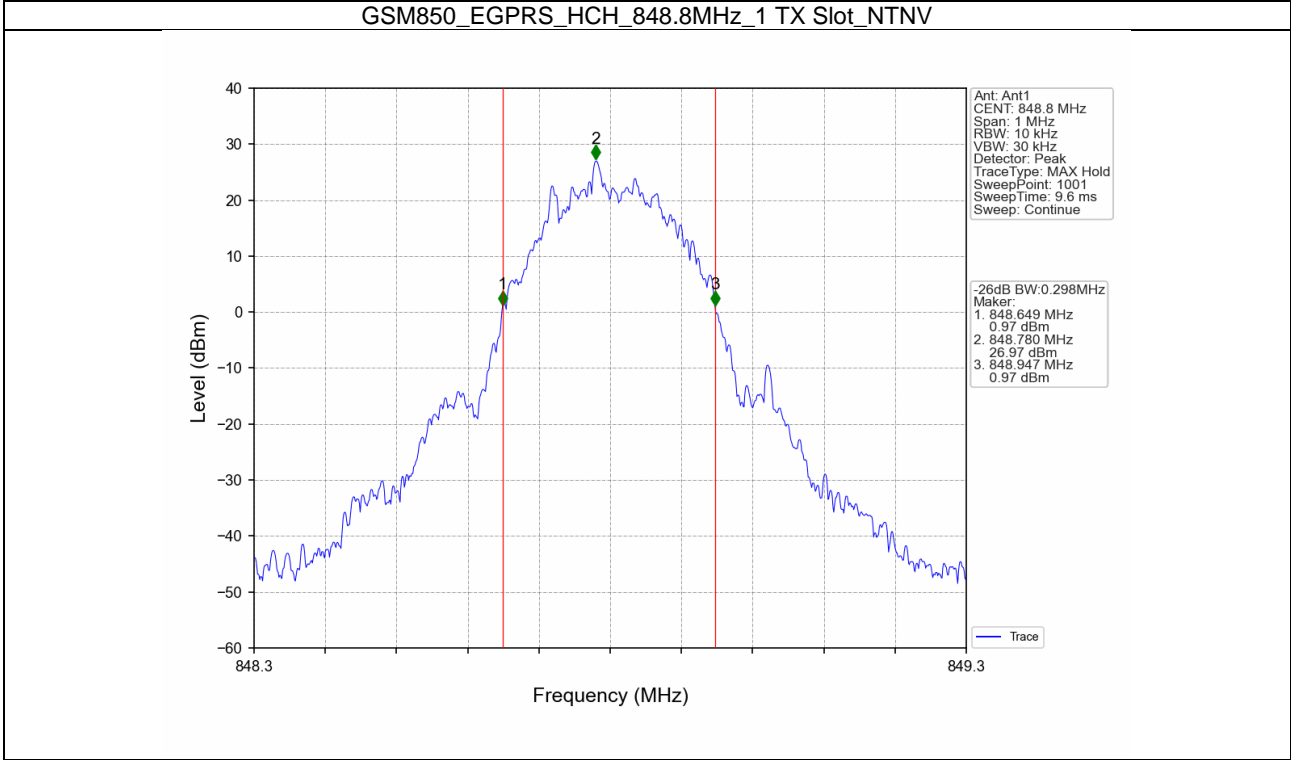


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4. Peak-Average Ratio

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	9.34	<=13	Pass
			836.6	9.67	<=13	Pass
			848.8	9.63	<=13	Pass
	GPRS	4 TX Slots	824.2	4.80	<=13	Pass
			836.6	3.65	<=13	Pass
			848.8	3.50	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.27	<=13	Pass
			836.6	9.80	<=13	Pass
			848.8	9.96	<=13	Pass



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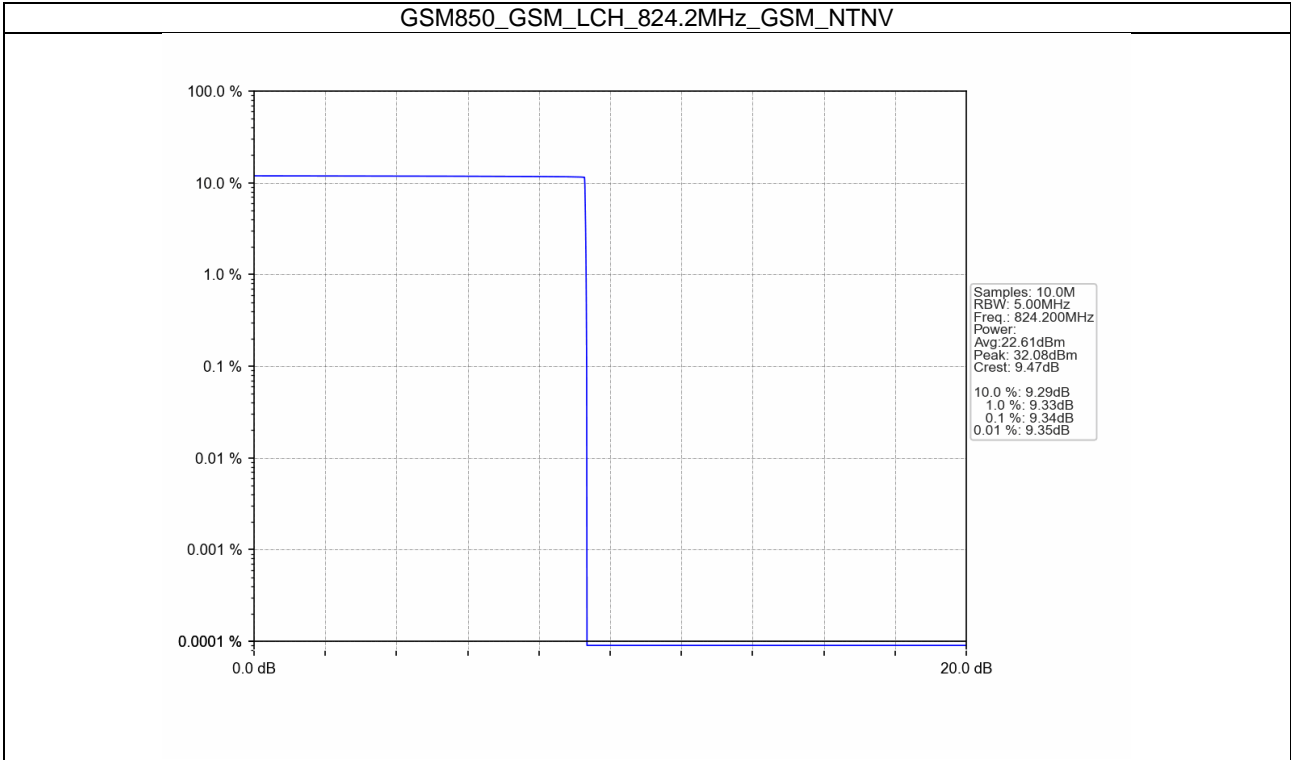
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4.1.2 Test Graph



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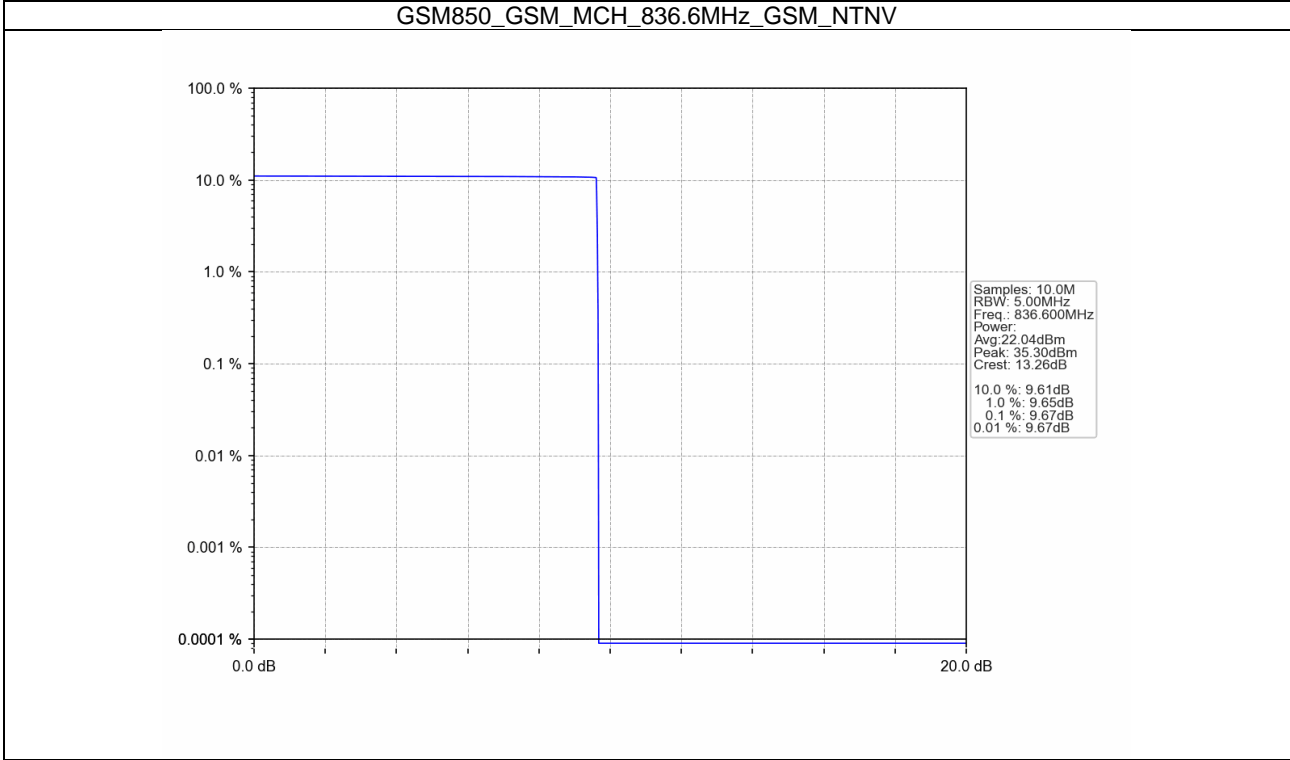
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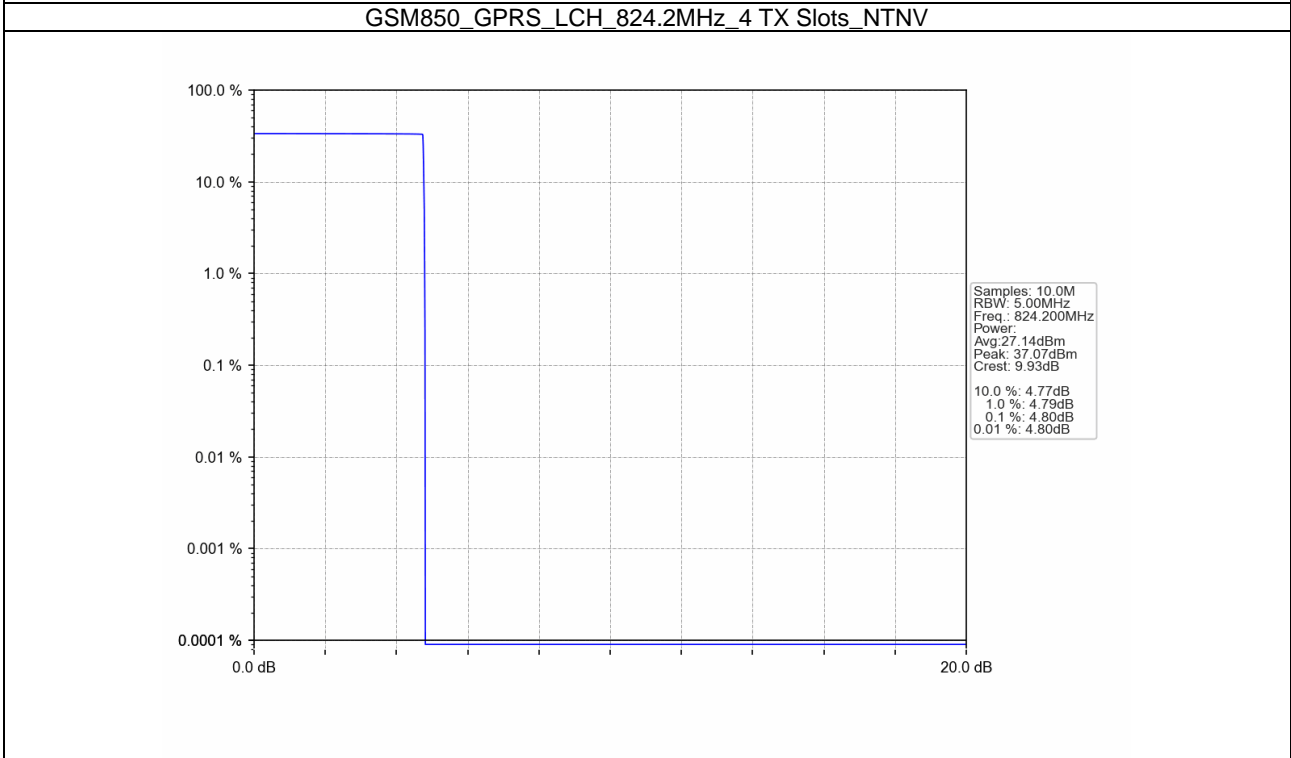
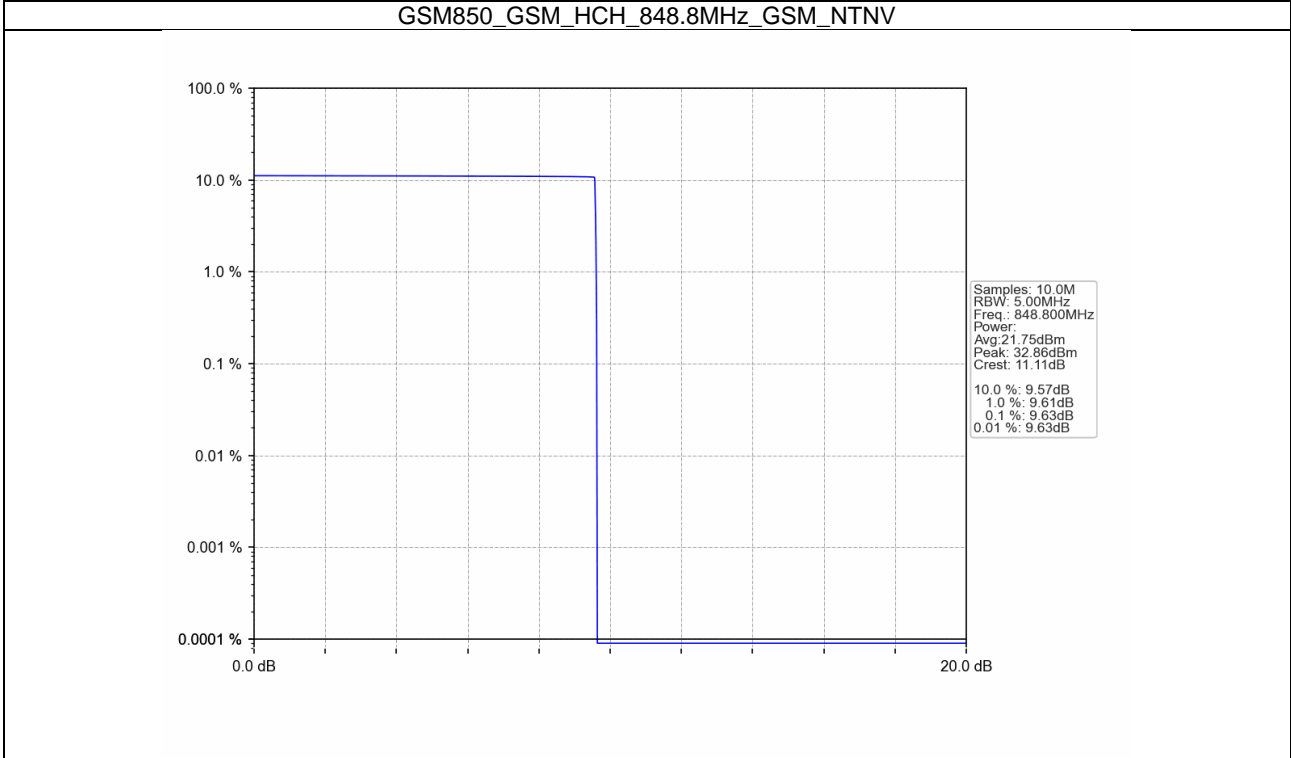
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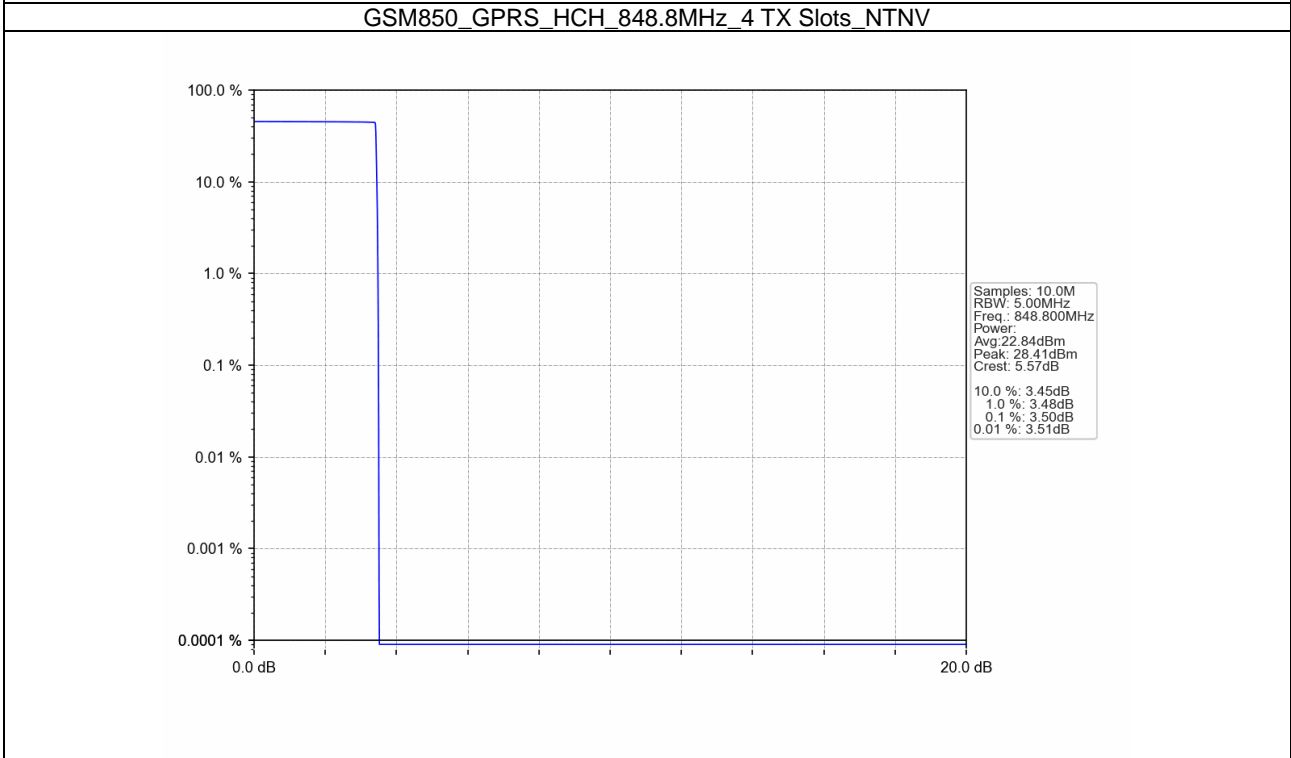
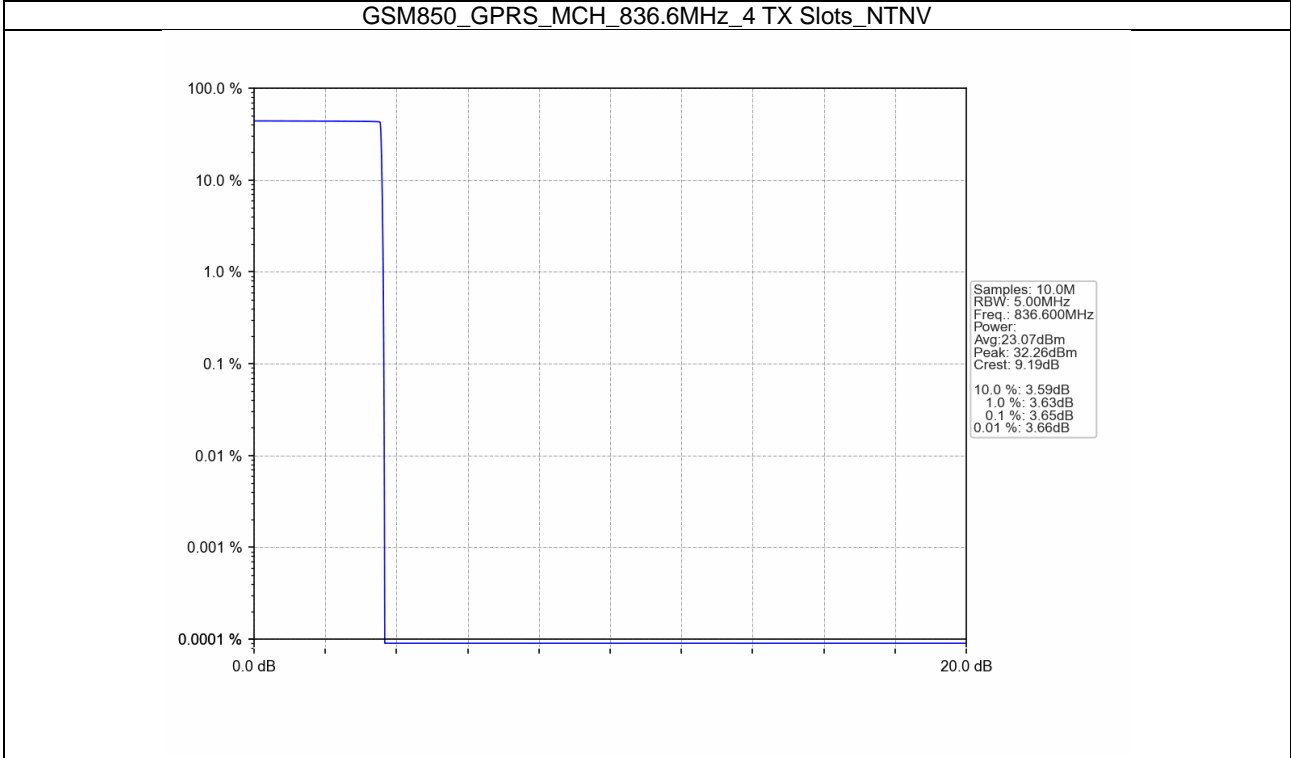
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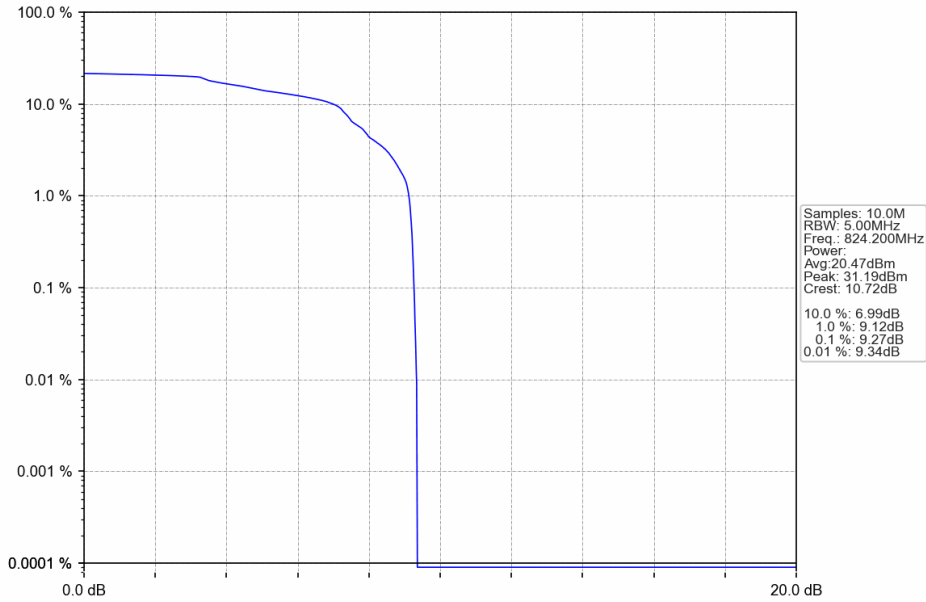
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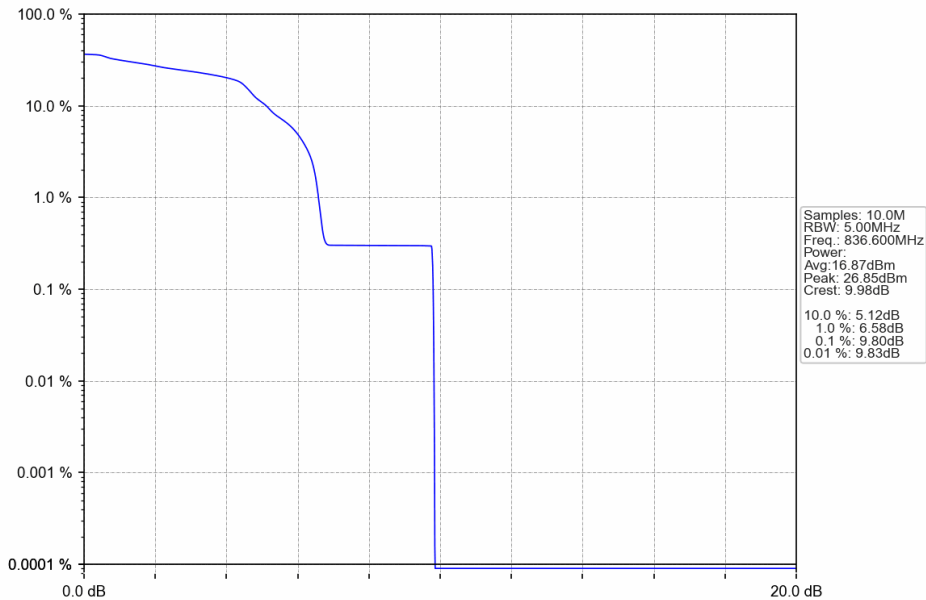
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GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV

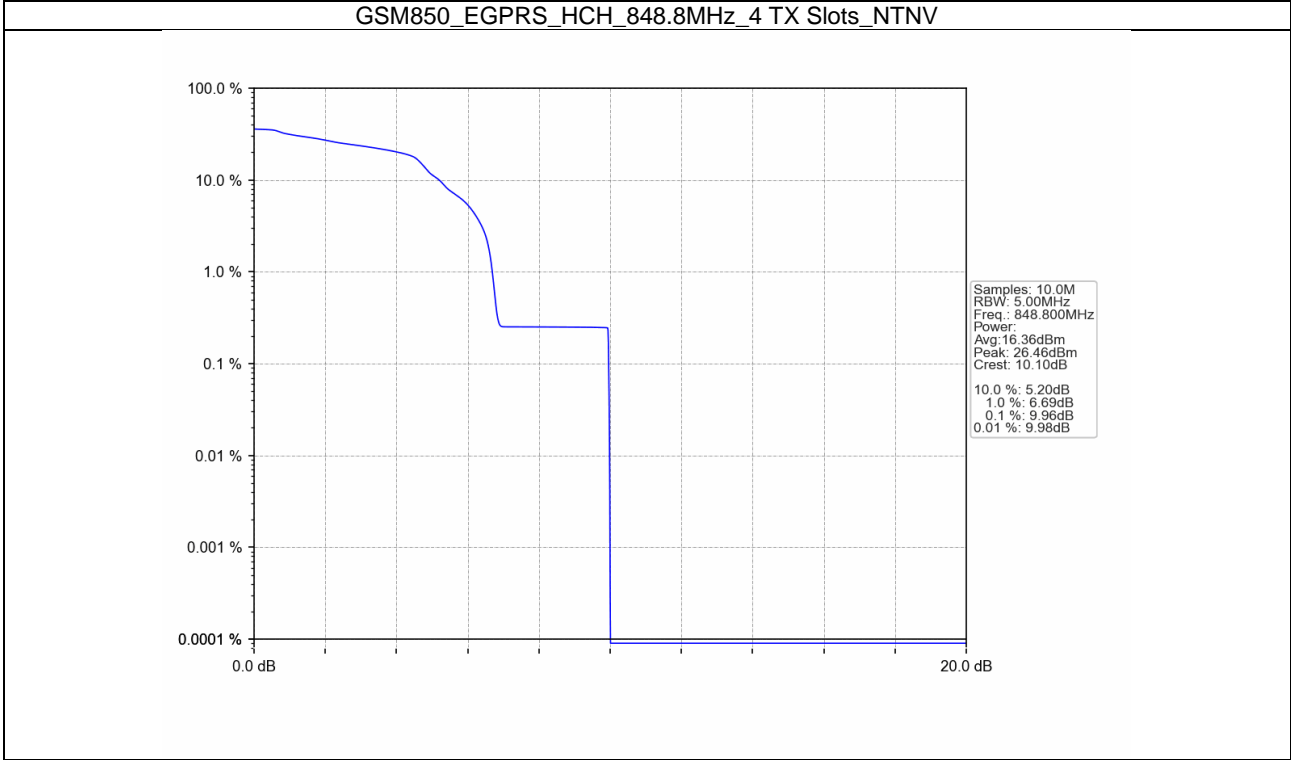


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5. Spurious Emission & Band Edges

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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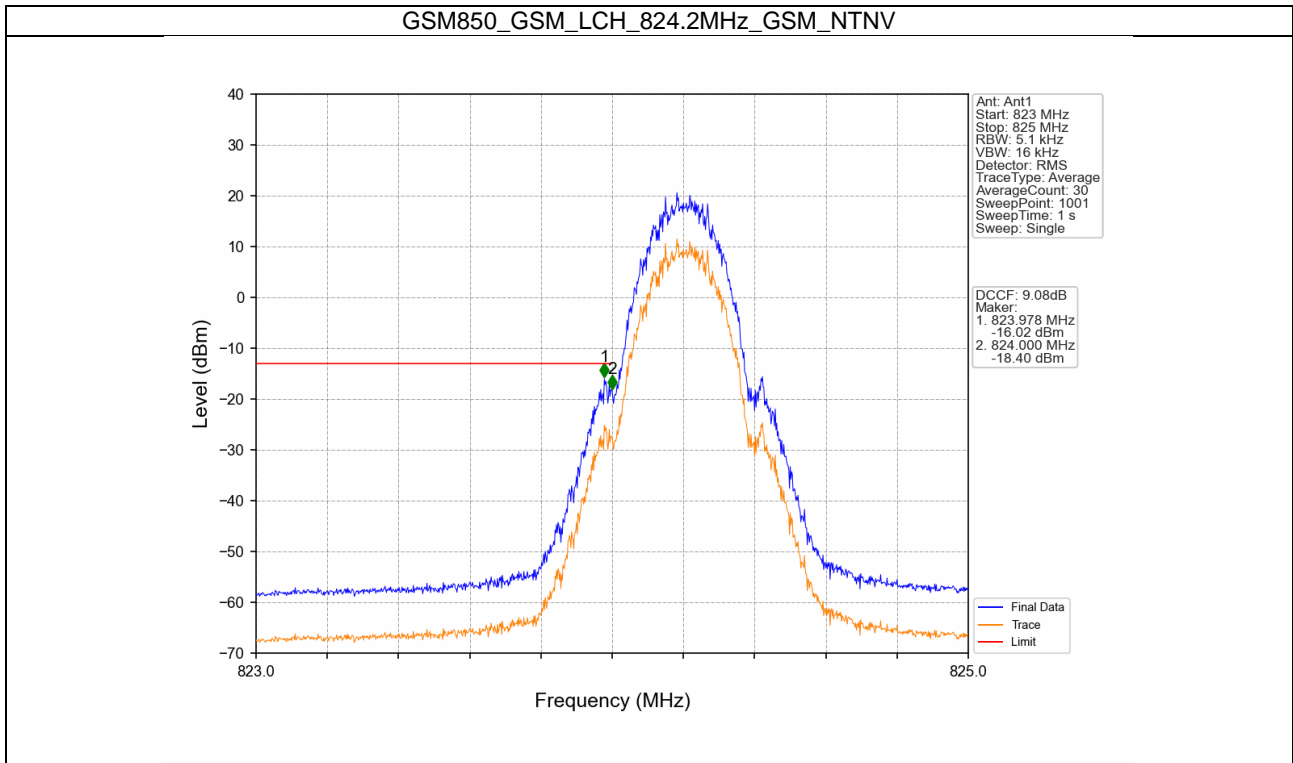
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5.1.2 Test Graph



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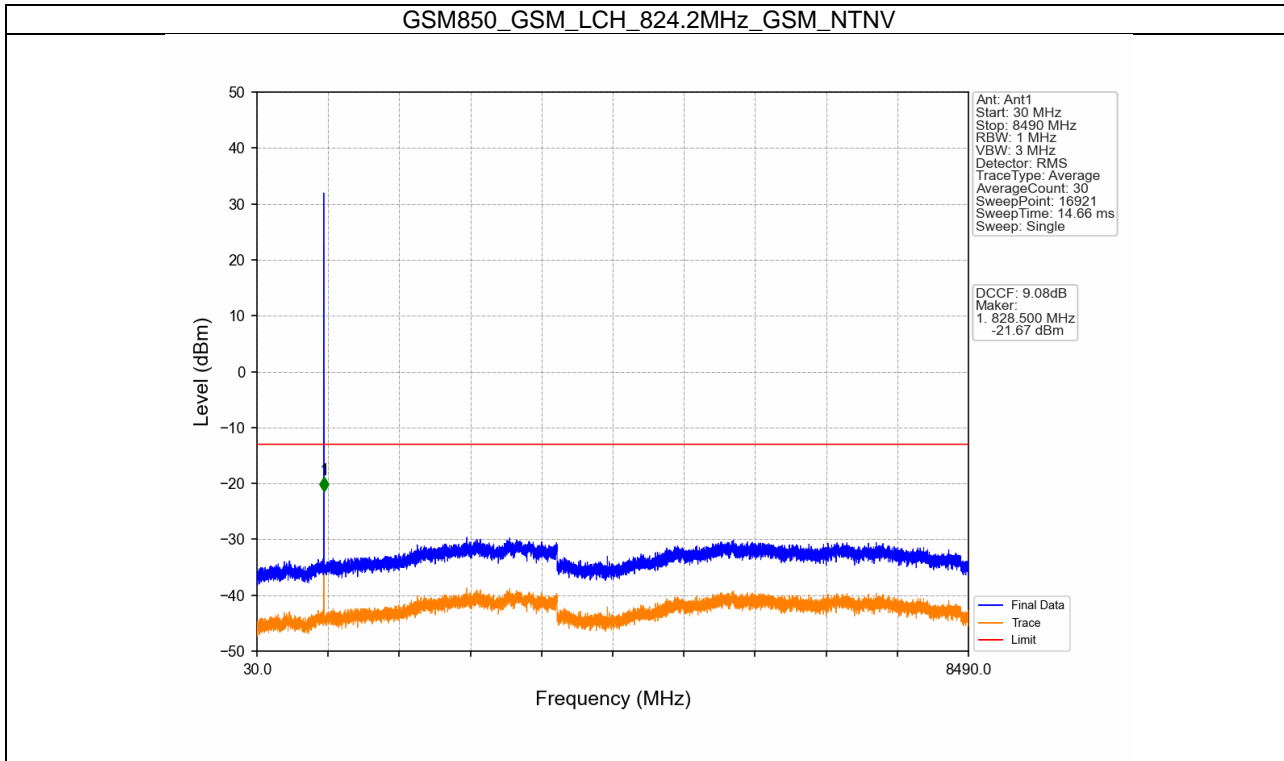


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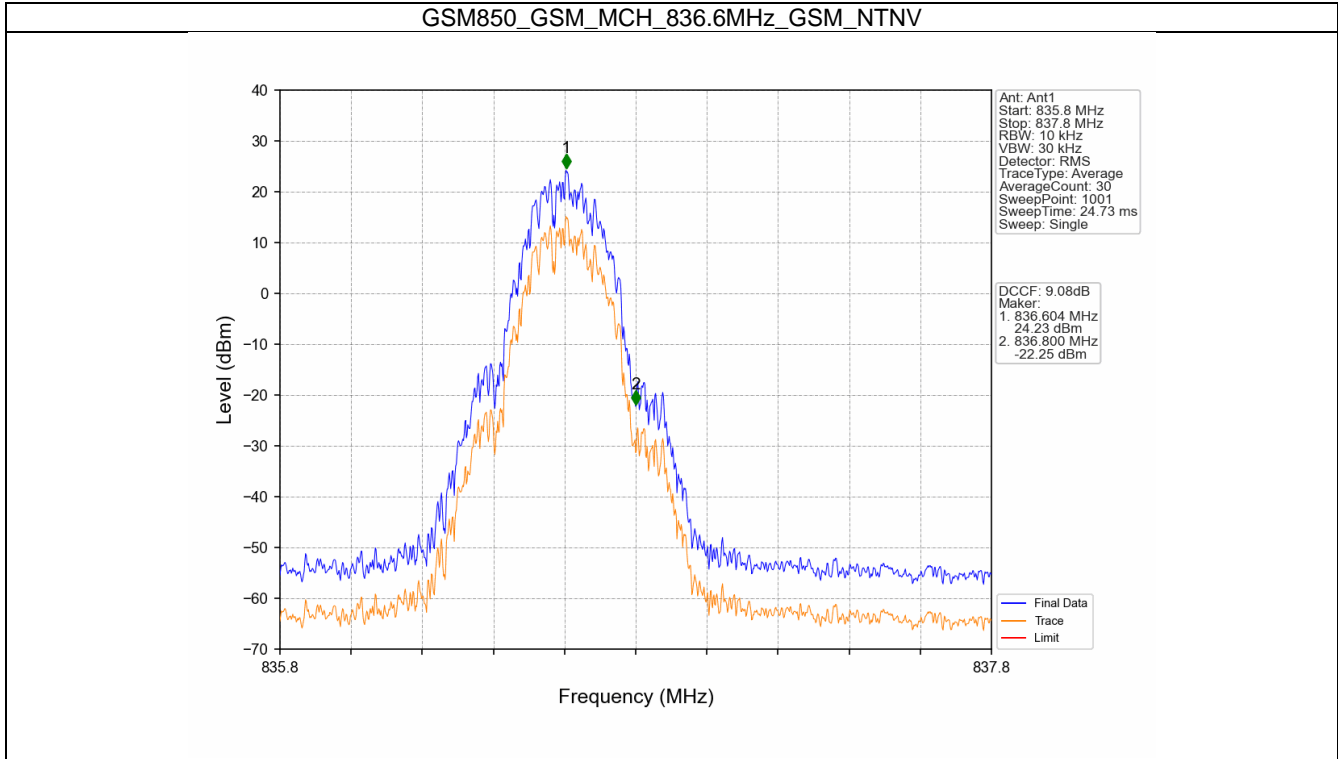
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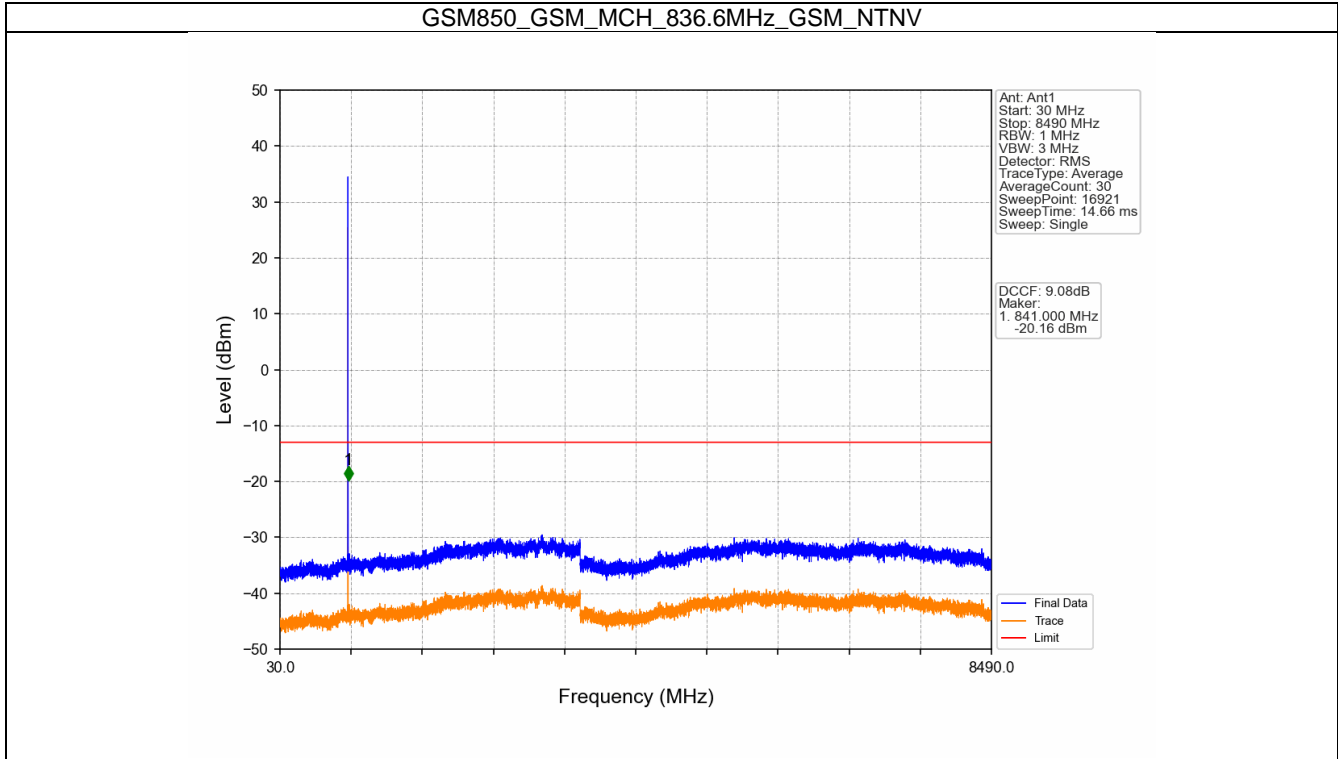
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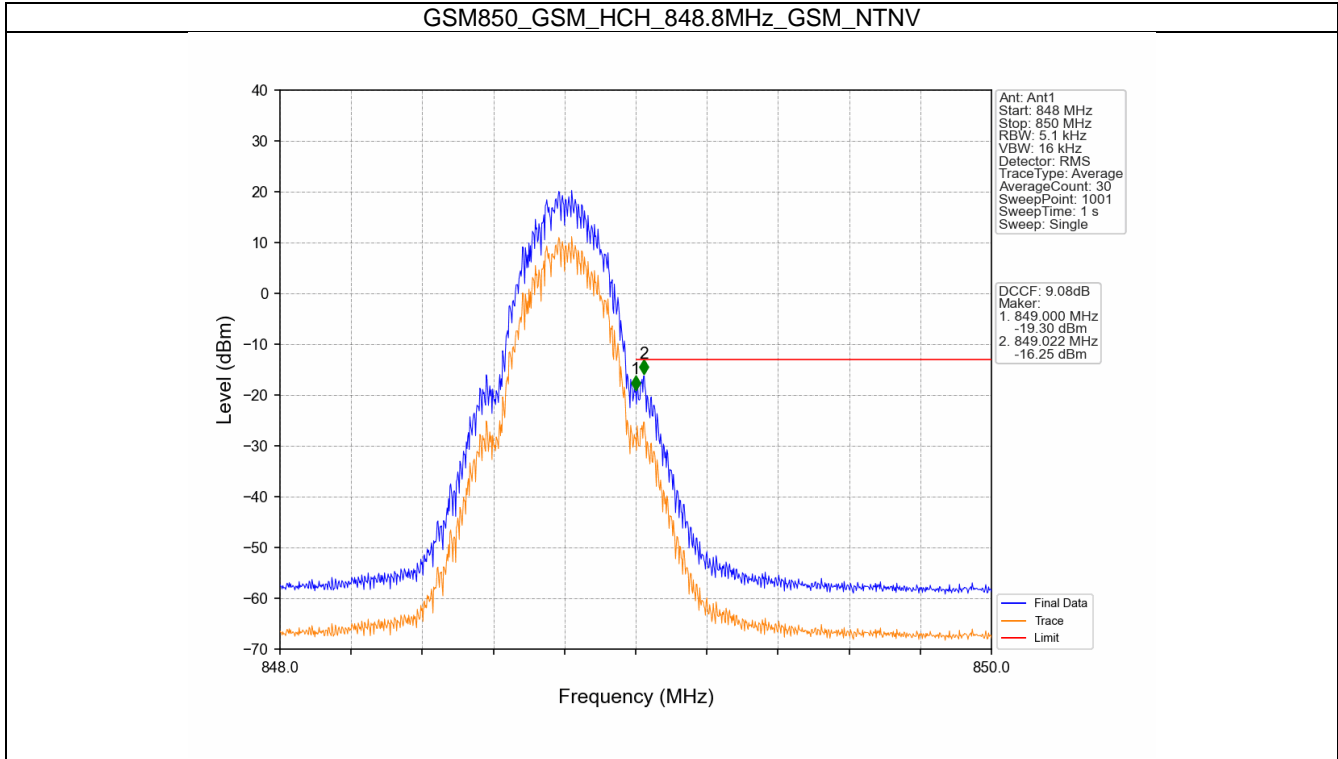
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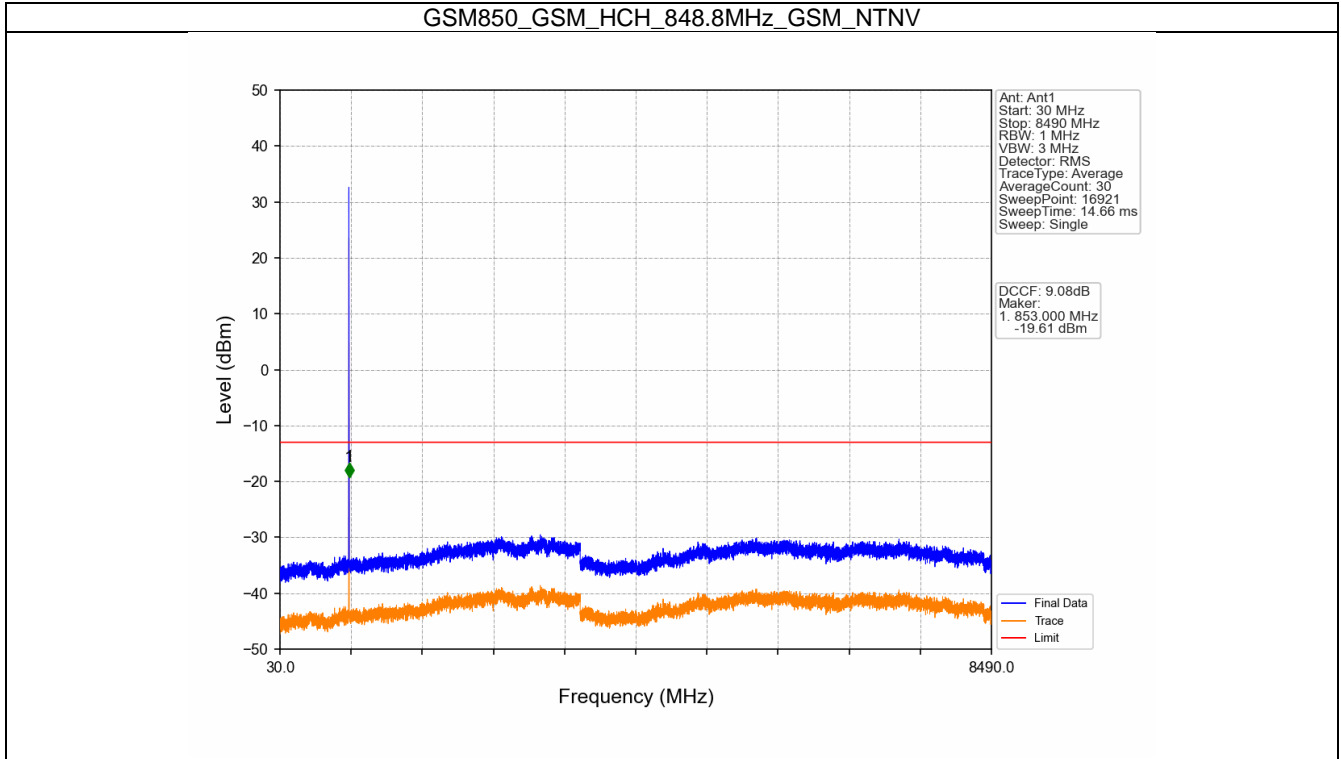
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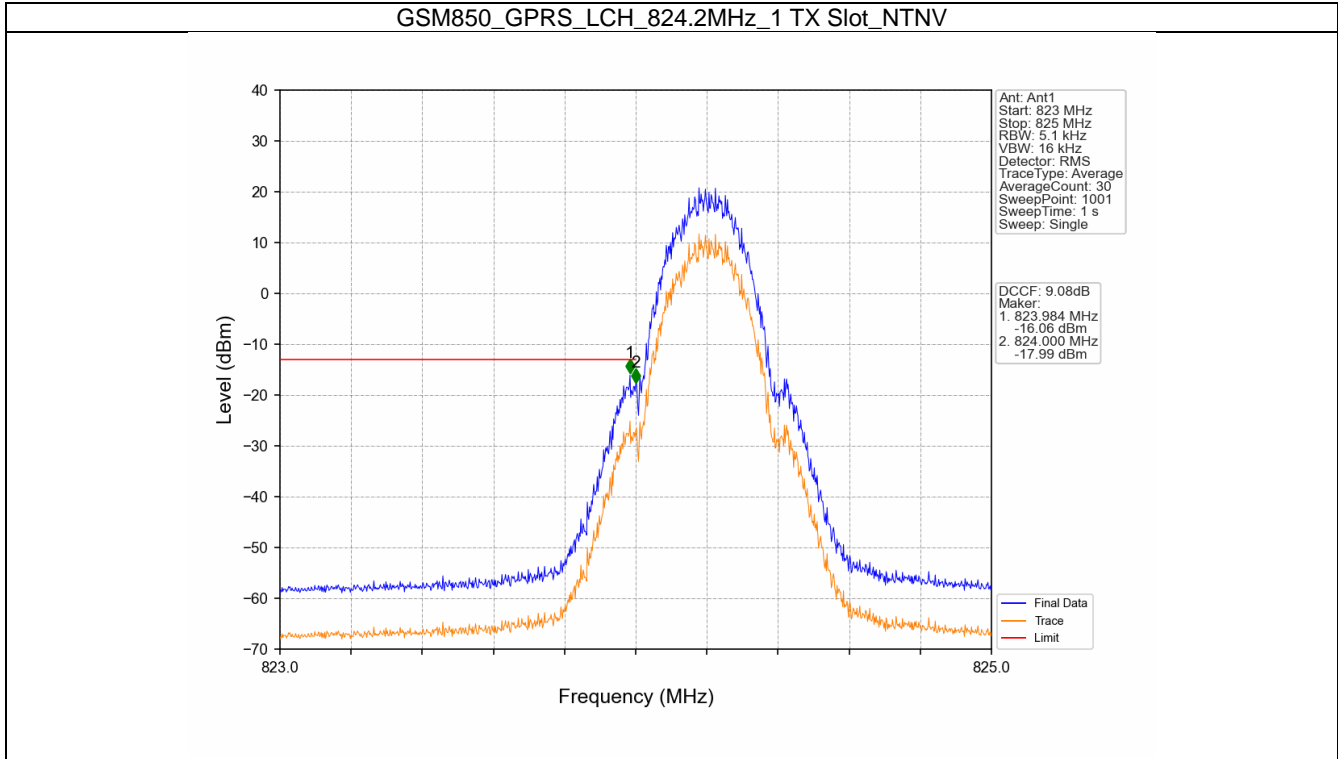
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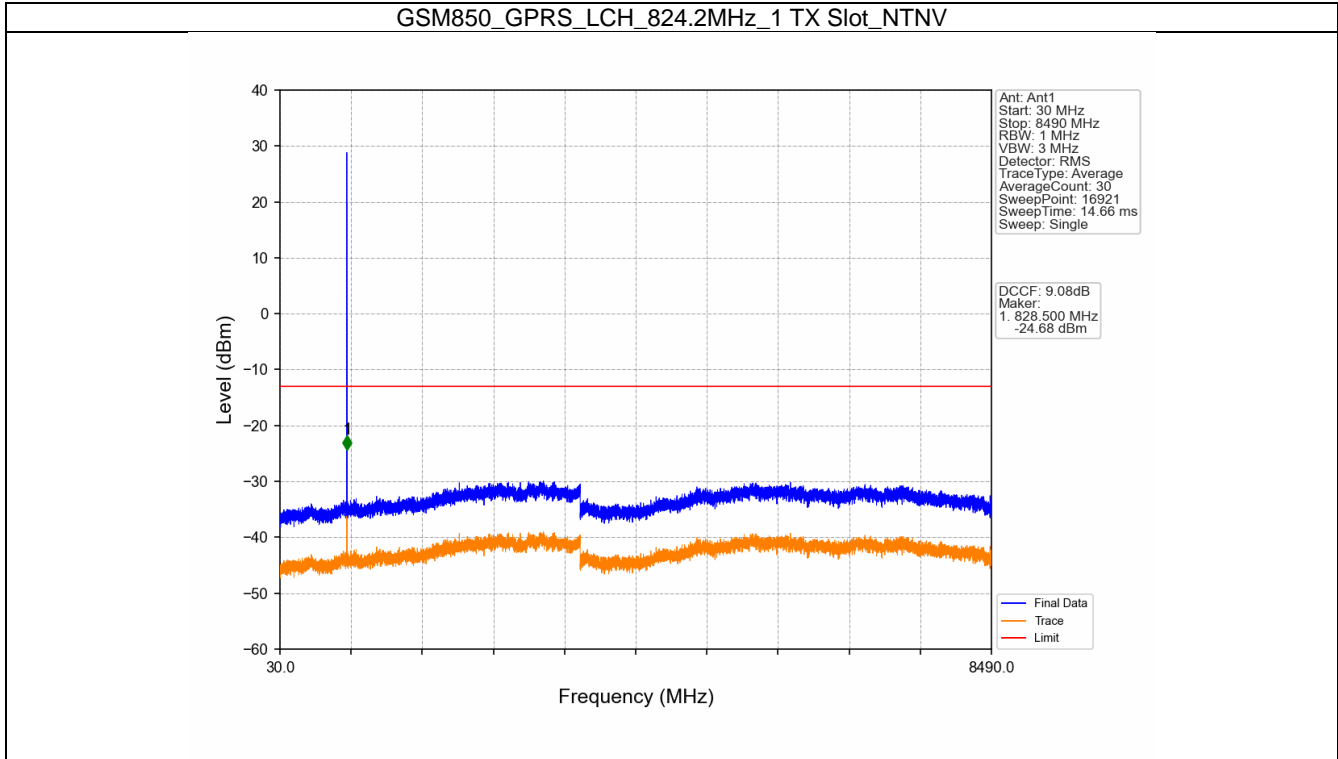
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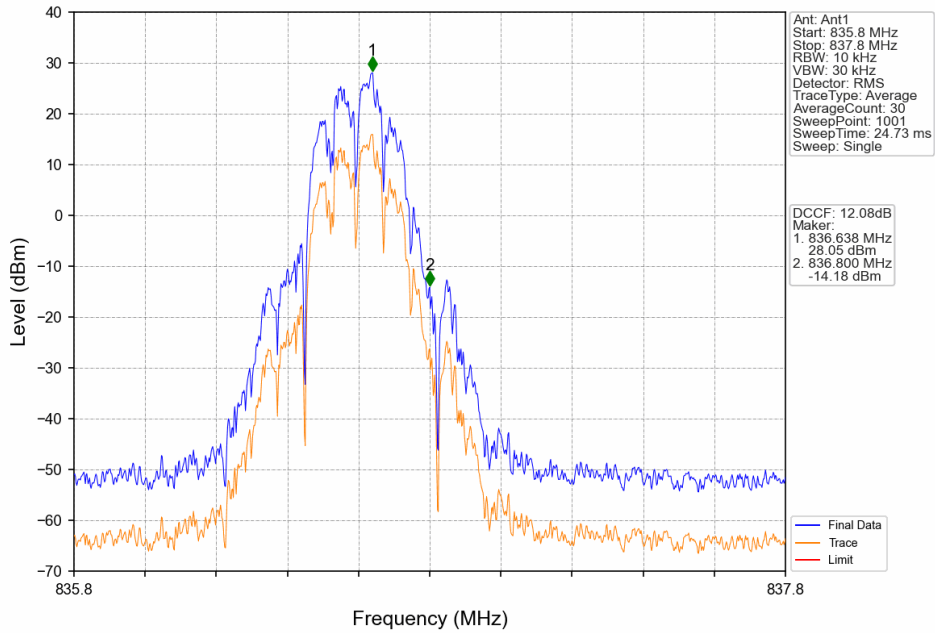
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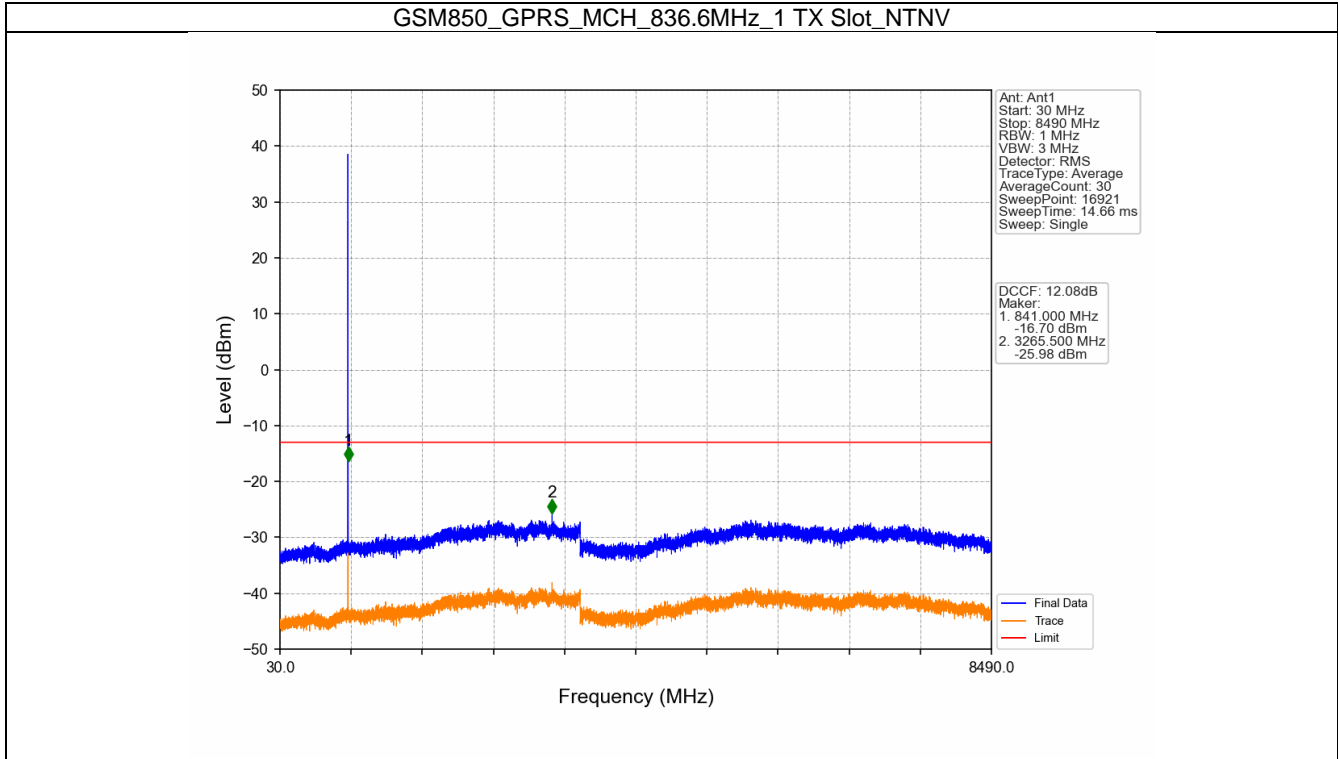
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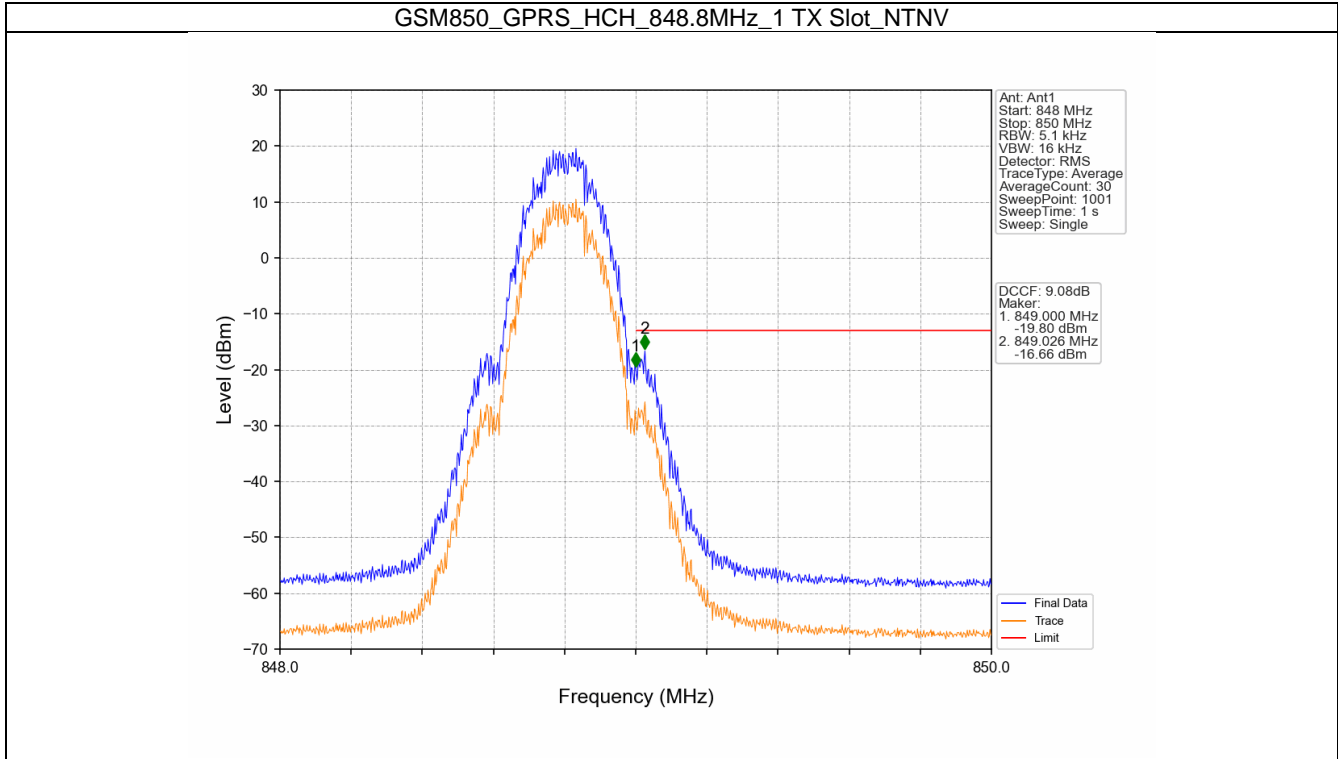
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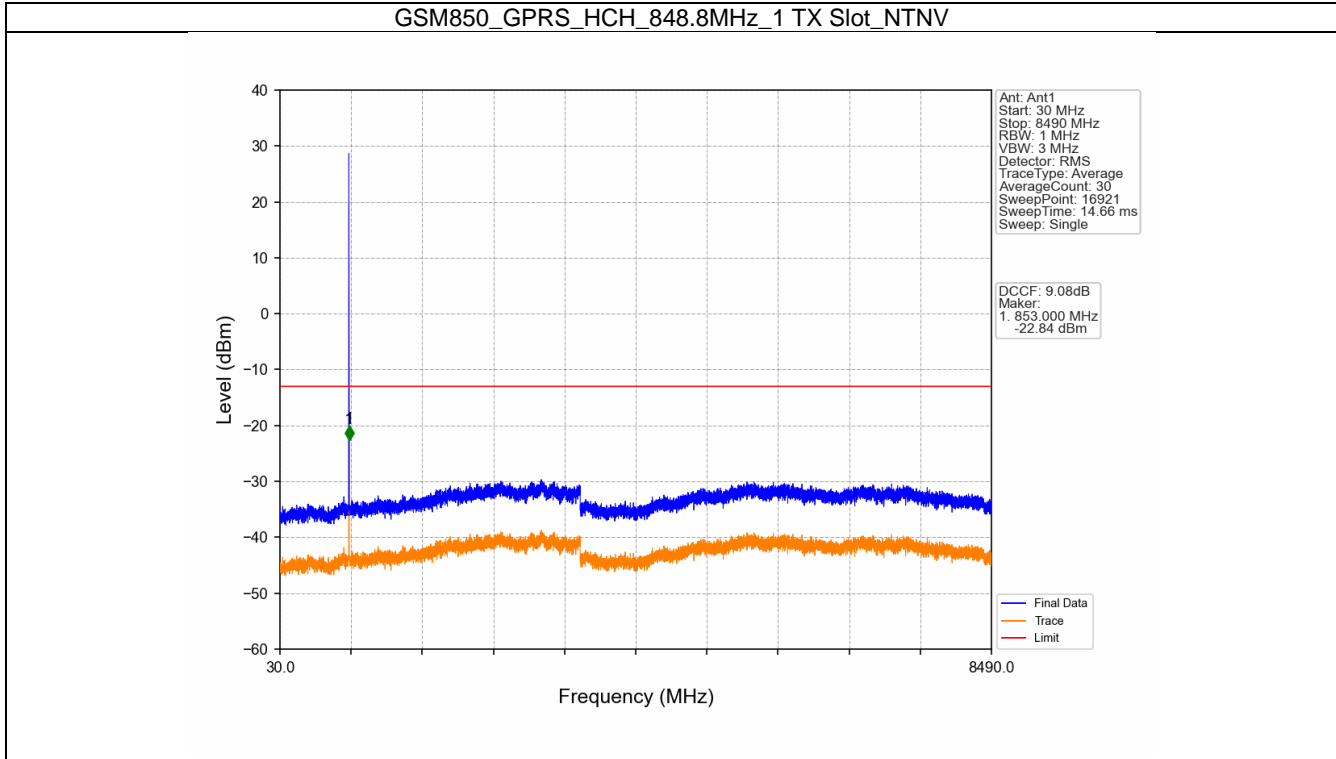
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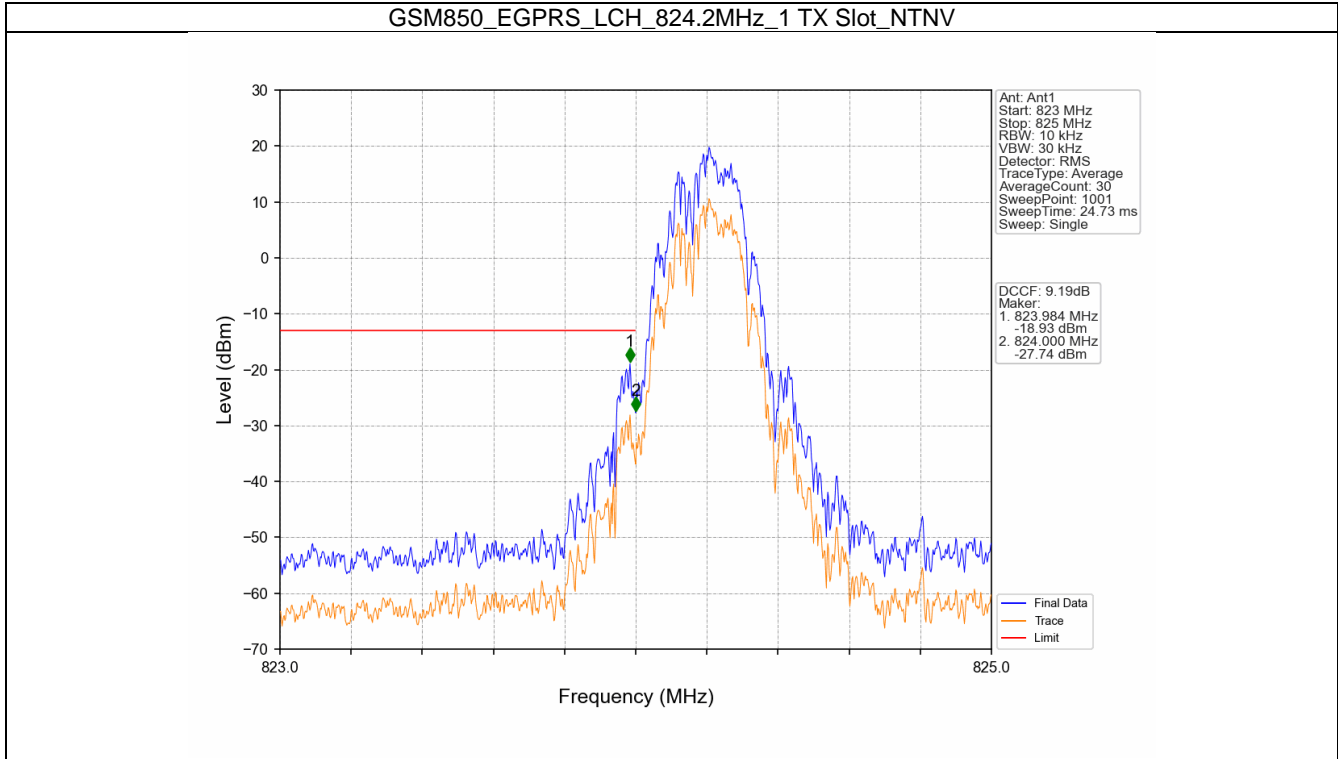
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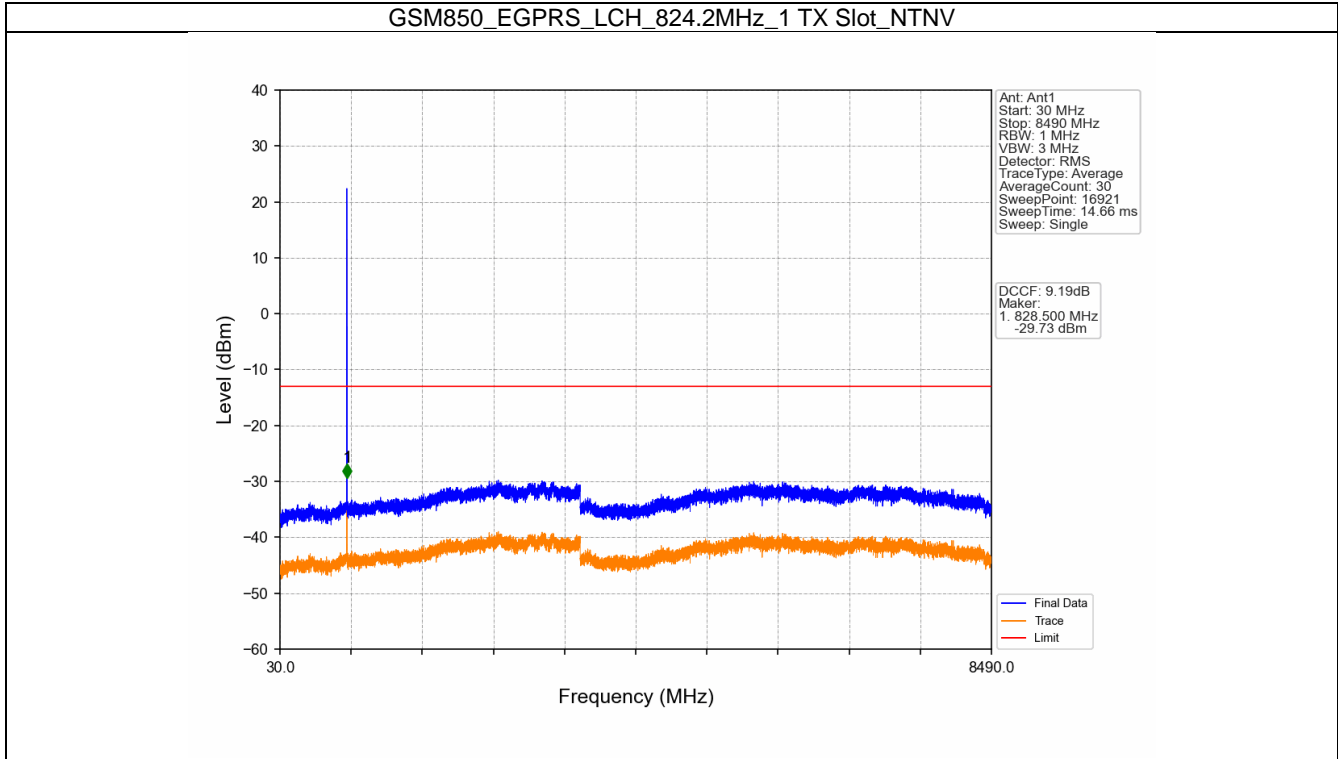
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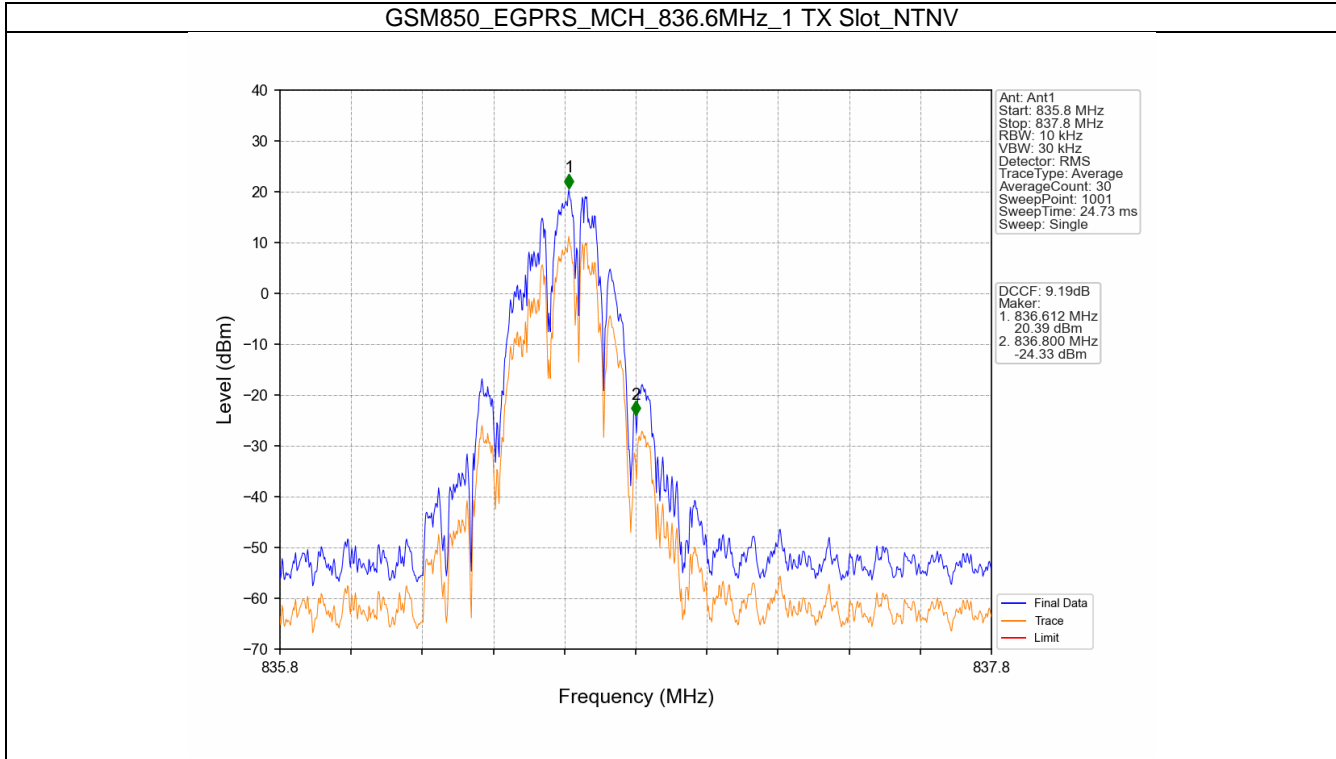
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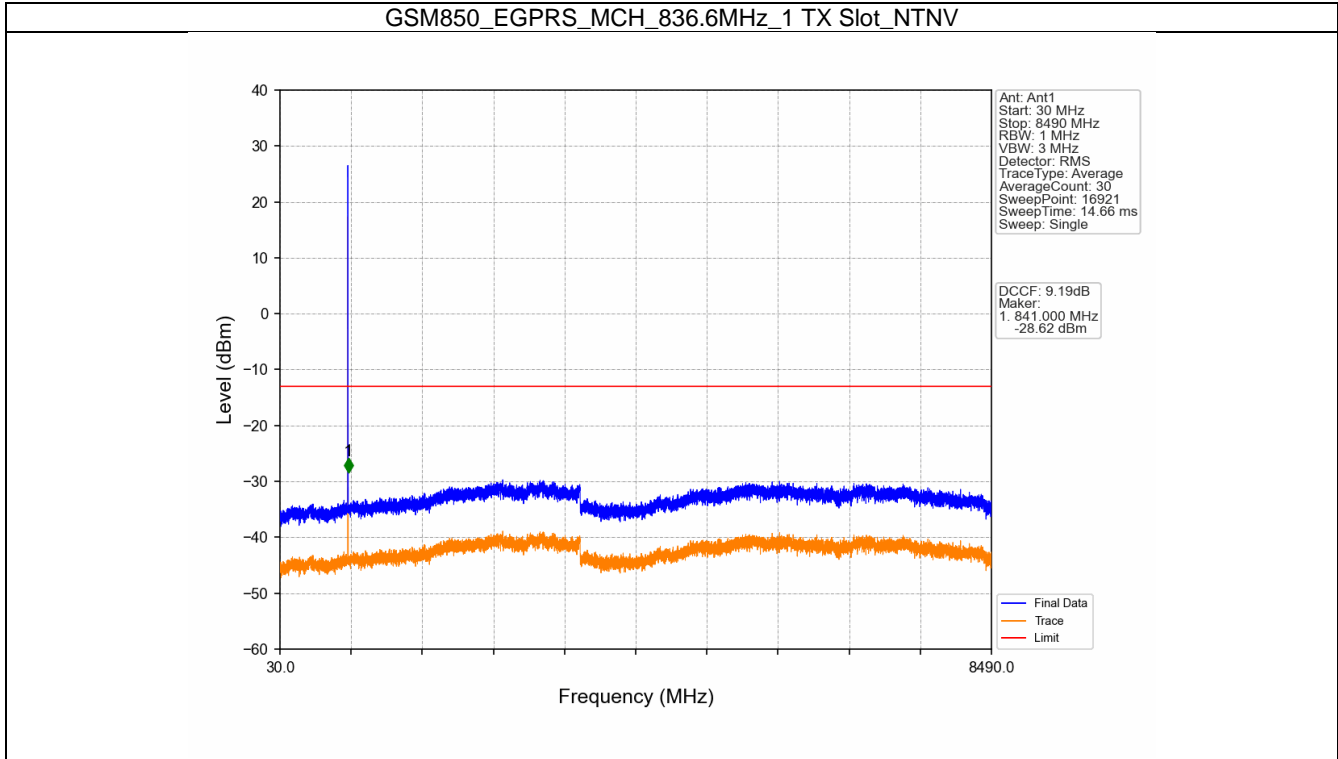
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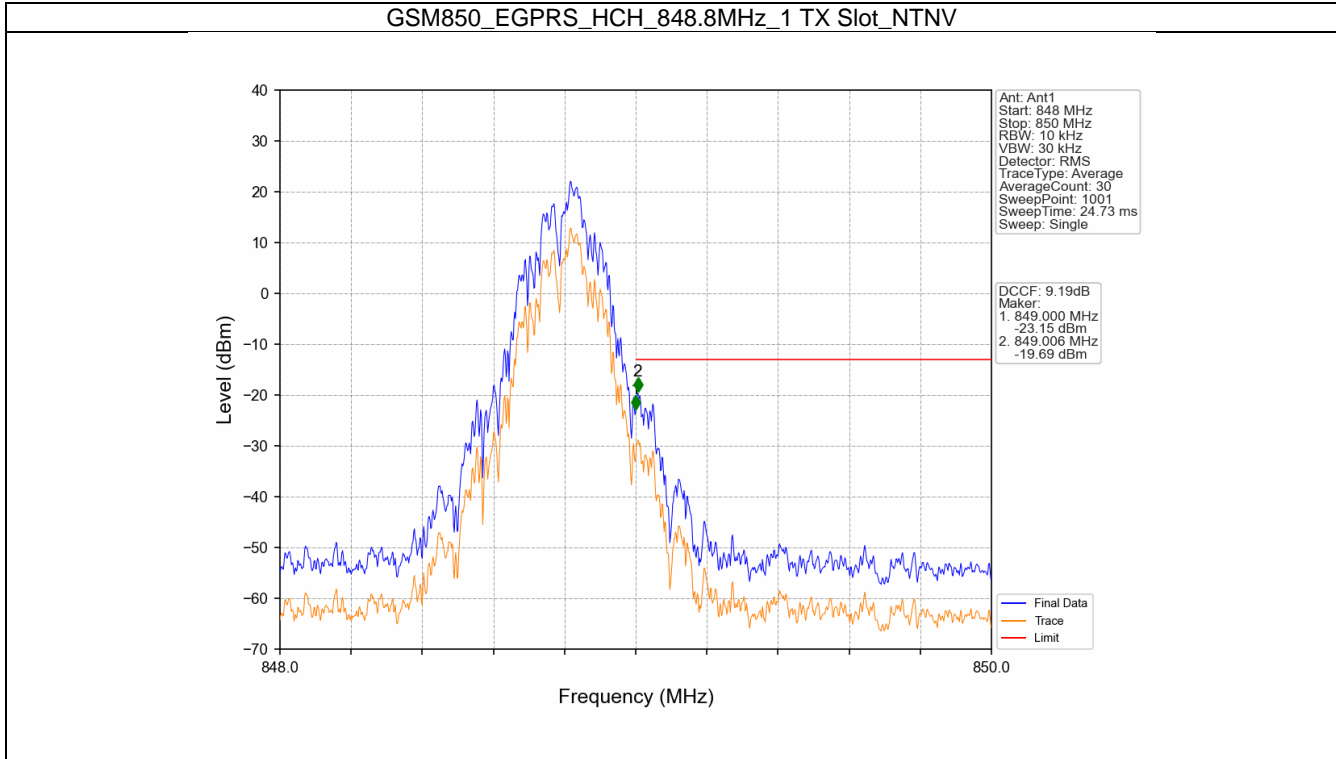
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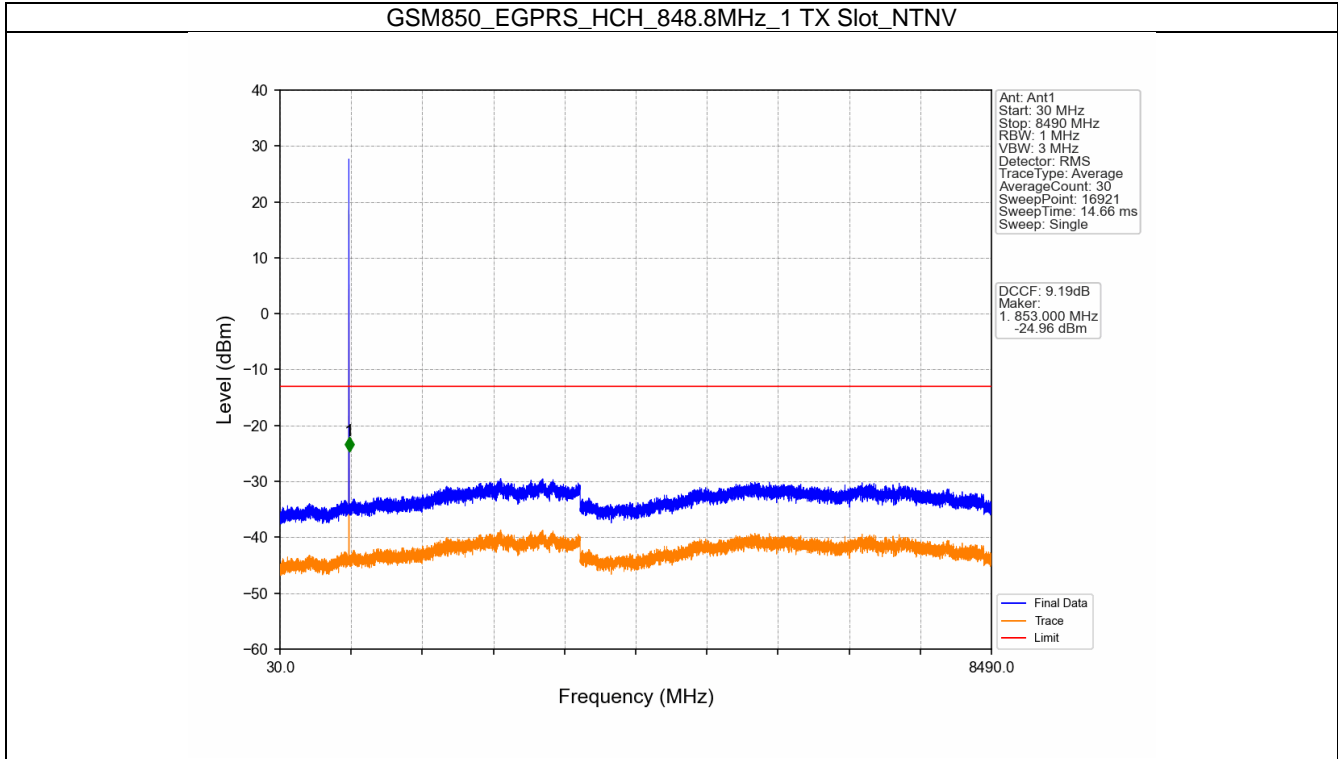
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6. Field Strength of Spurious Radiation

Test Band = GSM850 ANT0_TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	58.27	24.90	-48.85	-60.94	-13.00	47.94	Horizontal
2	2472.6000	44.34	27.33	-47.89	-71.48	-13.00	58.48	Horizontal
3	3296.8000	44.30	28.66	-47.16	-69.46	-13.00	56.46	Horizontal
4	4121.0000	44.34	29.67	-47.51	-68.76	-13.00	55.76	Horizontal
5	4945.2000	44.09	31.27	-46.98	-66.88	-13.00	53.88	Horizontal
6	5769.4000	43.93	32.49	-46.96	-65.80	-13.00	52.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	56.43	24.90	-48.85	-62.78	-13.00	49.78	Vertical
2	2472.6000	44.37	27.33	-47.89	-71.45	-13.00	58.45	Vertical
3	3296.8000	44.43	28.66	-47.16	-69.33	-13.00	56.33	Vertical
4	4121.0000	43.86	29.67	-47.51	-69.24	-13.00	56.24	Vertical
5	4945.2000	44.00	31.27	-46.98	-66.97	-13.00	53.97	Vertical
6	5769.4000	44.34	32.49	-46.96	-65.39	-13.00	52.39	Vertical



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Test Band = GSM850 ANT0_ 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	54.87	24.95	-48.81	-64.25	-13.00	51.25	Horizontal
2	2509.8000	45.03	27.42	-47.79	-70.60	-13.00	57.60	Horizontal
3	3346.4000	44.38	28.67	-47.25	-69.46	-13.00	56.46	Horizontal
4	4183.0000	43.97	29.76	-47.20	-68.73	-13.00	55.73	Horizontal
5	5019.6000	43.97	31.45	-46.97	-66.81	-13.00	53.81	Horizontal
6	5856.2000	43.59	32.46	-46.53	-65.74	-13.00	52.74	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1673.2000	51.58	24.95	-48.81	-67.54	-13.00	54.54	Vertical
2	2509.8000	44.73	27.42	-47.79	-70.90	-13.00	57.90	Vertical
3	3346.4000	44.62	28.67	-47.25	-69.22	-13.00	56.22	Vertical
4	4183.0000	44.24	29.76	-47.20	-68.46	-13.00	55.46	Vertical
5	5019.6000	44.12	31.45	-46.97	-66.66	-13.00	53.66	Vertical
6	5856.2000	44.12	32.46	-46.53	-65.21	-13.00	52.21	Vertical



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Test Band = GSM850 ANT0_ 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	51.52	25.00	-48.77	-67.51	-13.00	54.51	Horizontal
2	2546.4000	44.77	27.51	-47.90	-70.88	-13.00	57.88	Horizontal
3	3395.2000	44.26	28.68	-47.35	-69.67	-13.00	56.67	Horizontal
4	4244.0000	43.84	29.84	-47.10	-68.68	-13.00	55.68	Horizontal
5	5092.8000	44.01	31.62	-47.07	-66.70	-13.00	53.70	Horizontal
6	5941.6000	43.69	32.42	-46.51	-65.66	-13.00	52.66	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	45.89	25.00	-48.77	-73.14	-13.00	60.14	Vertical
2	2546.4000	45.19	27.51	-47.90	-70.46	-13.00	57.46	Vertical
3	3395.2000	43.94	28.68	-47.35	-69.99	-13.00	56.99	Vertical
4	4244.0000	44.40	29.84	-47.10	-68.12	-13.00	55.12	Vertical
5	5092.8000	43.77	31.62	-47.07	-66.94	-13.00	53.94	Vertical
6	5941.6000	44.08	32.42	-46.51	-65.27	-13.00	52.27	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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