



Report No.: SEWM2311000466RG01

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_ERPAnt0

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	32.85	-3.00	27.70	<=38.45	Pass	
			836.6	33.14	-3.00	27.99	<=38.45	Pass	
			848.8	33.31	-3.00	28.16	<=38.45	Pass	
	EGPRS	1 TX Slot	824.2	26.78	-3.00	21.63	<=38.45	Pass	
		2 TX Slots	824.2	25.59	-3.00	20.44	<=38.45	Pass	
		3 TX Slots	824.2	25.73	-3.00	20.58	<=38.45	Pass	
		4 TX Slots	824.2	22.41	-3.00	17.26	<=38.45	Pass	
		1 TX Slot	836.6	27.18	-3.00	22.03	<=38.45	Pass	
		2 TX Slots	836.6	26.12	-3.00	20.97	<=38.45	Pass	
		3 TX Slots	836.6	24.00	-3.00	18.85	<=38.45	Pass	
		4 TX Slots	836.6	22.87	-3.00	17.72	<=38.45	Pass	
		1 TX Slot	848.8	27.30	-3.00	22.15	<=38.45	Pass	
		2 TX Slots	848.8	26.43	-3.00	21.28	<=38.45	Pass	
		3 TX Slots	848.8	24.32	-3.00	19.17	<=38.45	Pass	
		4 TX Slots	848.8	25.16	-3.00	20.01	<=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	3.4	-2.850	-0.0035	-2.5 to 2.5	Pass		
			3.8	-5.641	-0.0068	-2.5 to 2.5	Pass		
			4.4	-3.551	-0.0043	-2.5 to 2.5	Pass		
		-30	3.8	-5.496	-0.0067	-2.5 to 2.5	Pass		
		-20	3.8	-2.316	-0.0028	-2.5 to 2.5	Pass		
		-10	3.8	-7.492	-0.0091	-2.5 to 2.5	Pass		
		0	3.8	-8.993	-0.0109	-2.5 to 2.5	Pass		
		10	3.8	-7.695	-0.0093	-2.5 to 2.5	Pass		
		30	3.8	-5.152	-0.0063	-2.5 to 2.5	Pass		
		40	3.8	-5.200	-0.0063	-2.5 to 2.5	Pass		
		50	3.8	-5.464	-0.0066	-2.5 to 2.5	Pass		
		836.6	20	3.4	-4.406	-0.0053	-2.5 to 2.5	Pass	
				3.8	-6.013	-0.0072	-2.5 to 2.5	Pass	
				4.4	-7.103	-0.0085	-2.5 to 2.5	Pass	
			-30	3.8	-6.451	-0.0077	-2.5 to 2.5	Pass	
	-20		3.8	-7.048	-0.0084	-2.5 to 2.5	Pass		
	-10		3.8	-3.868	-0.0046	-2.5 to 2.5	Pass		
	0		3.8	-2.852	-0.0034	-2.5 to 2.5	Pass		
	10		3.8	-3.863	-0.0046	-2.5 to 2.5	Pass		
	30		3.8	-6.193	-0.0074	-2.5 to 2.5	Pass		
	40		3.8	-4.749	-0.0057	-2.5 to 2.5	Pass		
	50		3.8	-7.180	-0.0086	-2.5 to 2.5	Pass		
	848.8		20	3.4	-5.833	-0.0069	-2.5 to 2.5	Pass	
				3.8	-4.083	-0.0048	-2.5 to 2.5	Pass	
				4.4	-5.055	-0.0060	-2.5 to 2.5	Pass	
			-30	3.8	-7.497	-0.0088	-2.5 to 2.5	Pass	
		-20	3.8	-5.850	-0.0069	-2.5 to 2.5	Pass		
		-10	3.8	-3.970	-0.0047	-2.5 to 2.5	Pass		
		0	3.8	-4.376	-0.0052	-2.5 to 2.5	Pass		
		10	3.8	-5.904	-0.0070	-2.5 to 2.5	Pass		
		30	3.8	-6.399	-0.0075	-2.5 to 2.5	Pass		
		40	3.8	-10.631	-0.0125	-2.5 to 2.5	Pass		
		50	3.8	-6.837	-0.0081	-2.5 to 2.5	Pass		
		EGPRS	824.2	20	3.4	-7.657	-0.0093	-2.5 to 2.5	Pass
					3.8	-5.307	-0.0064	-2.5 to 2.5	Pass
					4.4	-7.256	-0.0088	-2.5 to 2.5	Pass
				-30	3.8	-7.063	-0.0086	-2.5 to 2.5	Pass
	-20			3.8	-10.427	-0.0127	-2.5 to 2.5	Pass	



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		-10	3.8	-9.829	-0.0119	-2.5 to 2.5	Pass	
		0	3.8	-9.210	-0.0112	-2.5 to 2.5	Pass	
		10	3.8	-7.090	-0.0086	-2.5 to 2.5	Pass	
		30	3.8	-9.110	-0.0111	-2.5 to 2.5	Pass	
		40	3.8	-7.736	-0.0094	-2.5 to 2.5	Pass	
	836.6	20	3.4	-9.953	-0.0119	-2.5 to 2.5	Pass	
			3.8	-6.664	-0.0080	-2.5 to 2.5	Pass	
			4.4	-9.262	-0.0111	-2.5 to 2.5	Pass	
		-30	3.8	-4.637	-0.0055	-2.5 to 2.5	Pass	
		-20	3.8	-6.156	-0.0074	-2.5 to 2.5	Pass	
		-10	3.8	-6.901	-0.0082	-2.5 to 2.5	Pass	
		0	3.8	-6.252	-0.0075	-2.5 to 2.5	Pass	
		10	3.8	-7.137	-0.0085	-2.5 to 2.5	Pass	
		30	3.8	-9.576	-0.0114	-2.5 to 2.5	Pass	
		40	3.8	-4.923	-0.0059	-2.5 to 2.5	Pass	
		50	3.8	-9.676	-0.0116	-2.5 to 2.5	Pass	
		848.8	20	3.4	-8.642	-0.0102	-2.5 to 2.5	Pass
				3.8	-6.327	-0.0075	-2.5 to 2.5	Pass
				4.4	-8.852	-0.0104	-2.5 to 2.5	Pass
			-30	3.8	-6.978	-0.0082	-2.5 to 2.5	Pass
-20	3.8		-7.400	-0.0087	-2.5 to 2.5	Pass		
-10	3.8		-6.795	-0.0080	-2.5 to 2.5	Pass		
0	3.8		-9.568	-0.0113	-2.5 to 2.5	Pass		
10	3.8		-8.344	-0.0098	-2.5 to 2.5	Pass		
30	3.8		-7.165	-0.0084	-2.5 to 2.5	Pass		
40	3.8		-5.767	-0.0068	-2.5 to 2.5	Pass		
50	3.8	-7.399	-0.0087	-2.5 to 2.5	Pass			



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Member of the SGS Group (SGS SA)

3. Field Strength of Spurious Radiation

Test Band = GSM850_

Test Channel = Low

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	43.05	-48.22	25.27	-75.16	-13.00	62.16	Horizontal
2	2472.6000	42.40	-47.32	27.22	-72.95	-13.00	59.95	Horizontal
3	3296.8000	41.84	-46.67	28.48	-71.61	-13.00	58.61	Horizontal
4	4121.0000	40.64	-45.91	29.39	-71.14	-13.00	58.14	Horizontal
5	4945.2000	41.77	-45.69	31.28	-67.89	-13.00	54.89	Horizontal
6	5769.4000	39.24	-44.63	32.65	-68.00	-13.00	55.00	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1648.4000	42.69	-48.22	25.27	-75.52	-13.00	62.52	Vertical
2	2472.6000	42.44	-47.32	27.22	-72.91	-13.00	59.91	Vertical
3	3296.8000	42.01	-46.67	28.48	-71.44	-13.00	58.44	Vertical
4	4121.0000	40.14	-45.91	29.39	-71.64	-13.00	58.64	Vertical
5	4945.2000	40.67	-45.69	31.28	-68.99	-13.00	55.99	Vertical
6	5769.4000	40.10	-44.63	32.65	-67.14	-13.00	54.14	Vertical



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Test Band = GSM850_
Test Channel = Mid

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	42.51	-48.19	25.31	-75.63	-13.00	62.63	Horizontal
2	2509.2000	42.83	-47.24	27.32	-72.35	-13.00	59.35	Horizontal
3	3345.6000	42.13	-46.62	28.51	-71.24	-13.00	58.24	Horizontal
4	4182.0000	39.53	-45.95	29.54	-72.14	-13.00	59.14	Horizontal
5	5018.4000	40.39	-45.73	31.45	-69.15	-13.00	56.15	Horizontal
6	5854.8000	39.27	-44.83	32.67	-68.15	-13.00	55.15	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	42.91	-48.19	25.31	-75.23	-13.00	62.23	Vertical
2	2509.2000	42.04	-47.24	27.32	-73.14	-13.00	60.14	Vertical
3	3345.6000	41.33	-46.62	28.51	-72.04	-13.00	59.04	Vertical
4	4182.0000	39.73	-45.95	29.54	-71.94	-13.00	58.94	Vertical
5	5018.4000	40.14	-45.73	31.45	-69.40	-13.00	56.40	Vertical
6	5854.8000	39.40	-44.83	32.67	-68.02	-13.00	55.02	Vertical



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Member of the SGS Group (SGS SA)

Test Band = GSM850_
Test Channel = High

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	43.66	-48.16	25.35	-74.42	-13.00	61.42	Horizontal
2	2546.4000	41.86	-47.11	27.39	-73.12	-13.00	60.12	Horizontal
3	3395.2000	41.60	-46.55	28.54	-71.67	-13.00	58.67	Horizontal
4	4244.0000	40.85	-45.88	29.69	-70.61	-13.00	57.61	Horizontal
5	5092.8000	39.35	-45.41	31.62	-69.70	-13.00	56.70	Horizontal
6	5941.6000	40.40	-44.74	32.69	-66.92	-13.00	53.92	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1697.6000	42.87	-48.16	25.35	-75.21	-13.00	62.21	Vertical
2	2546.4000	42.23	-47.11	27.39	-72.75	-13.00	59.75	Vertical
3	3395.2000	41.19	-46.55	28.54	-72.08	-13.00	59.08	Vertical
4	4244.0000	40.56	-45.88	29.69	-70.90	-13.00	57.90	Vertical
5	5092.8000	39.77	-45.41	31.62	-69.28	-13.00	56.28	Vertical
6	5941.6000	39.46	-44.74	32.69	-67.86	-13.00	54.86	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) - Preamplifier (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	0.248	/	Pass
			836.6	0.245	/	Pass
			848.8	0.248	/	Pass
	EGPRS	1 TX Slot	824.2	0.240	/	Pass
			836.6	0.255	/	Pass
			848.8	0.239	/	Pass



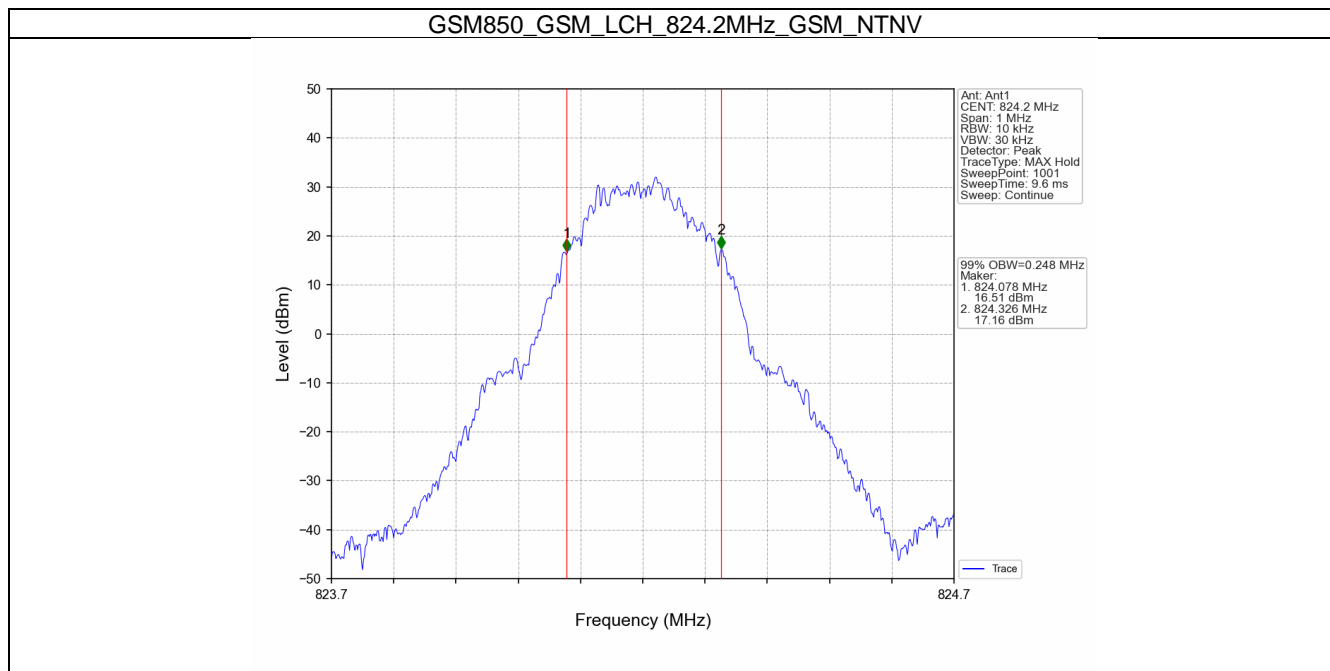
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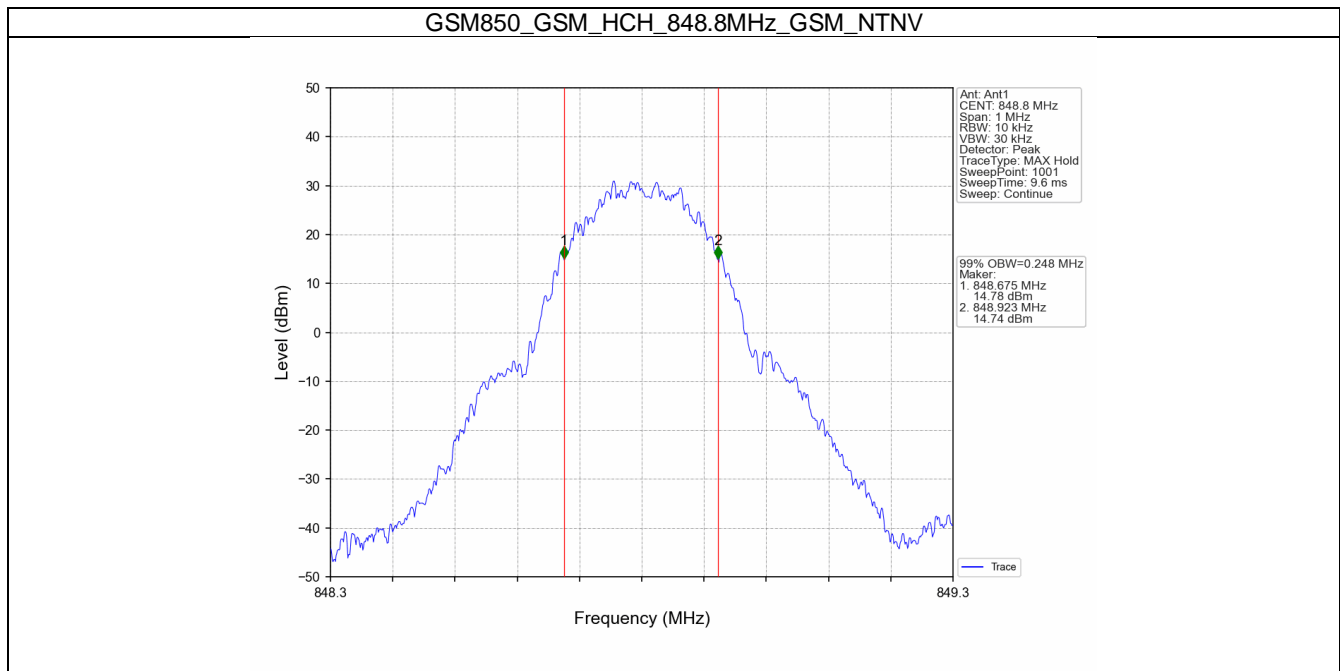
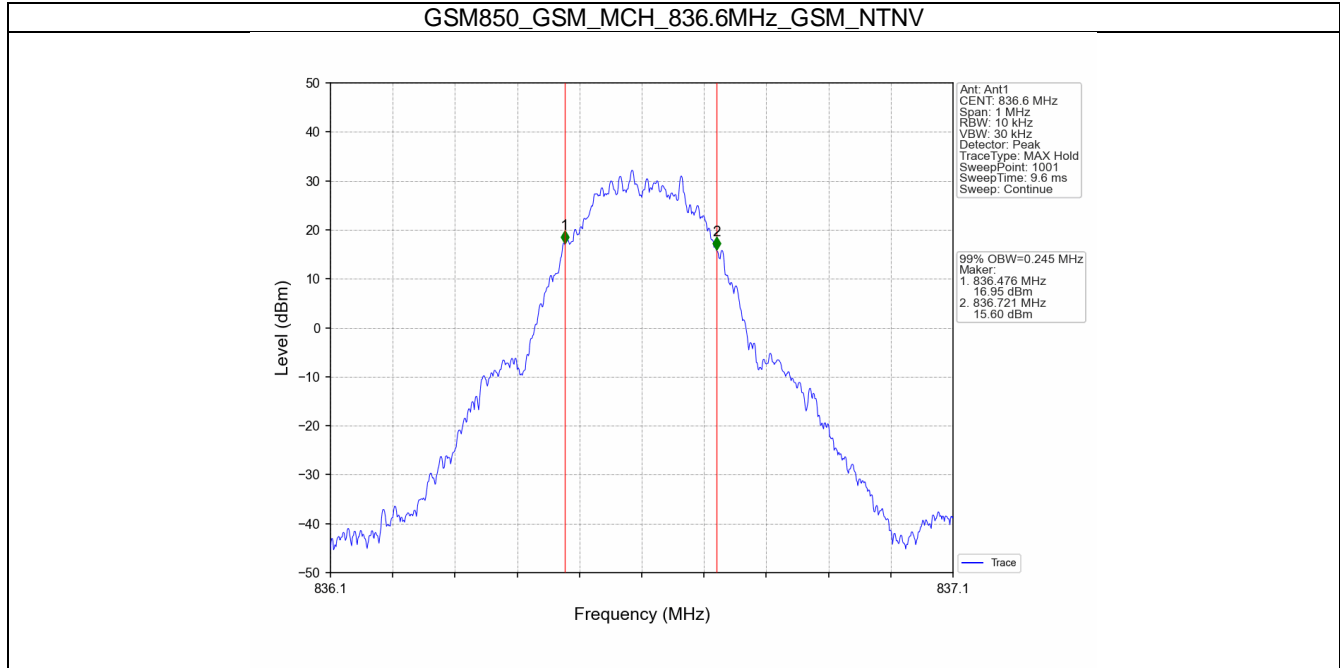
4.1.2 Test Graph



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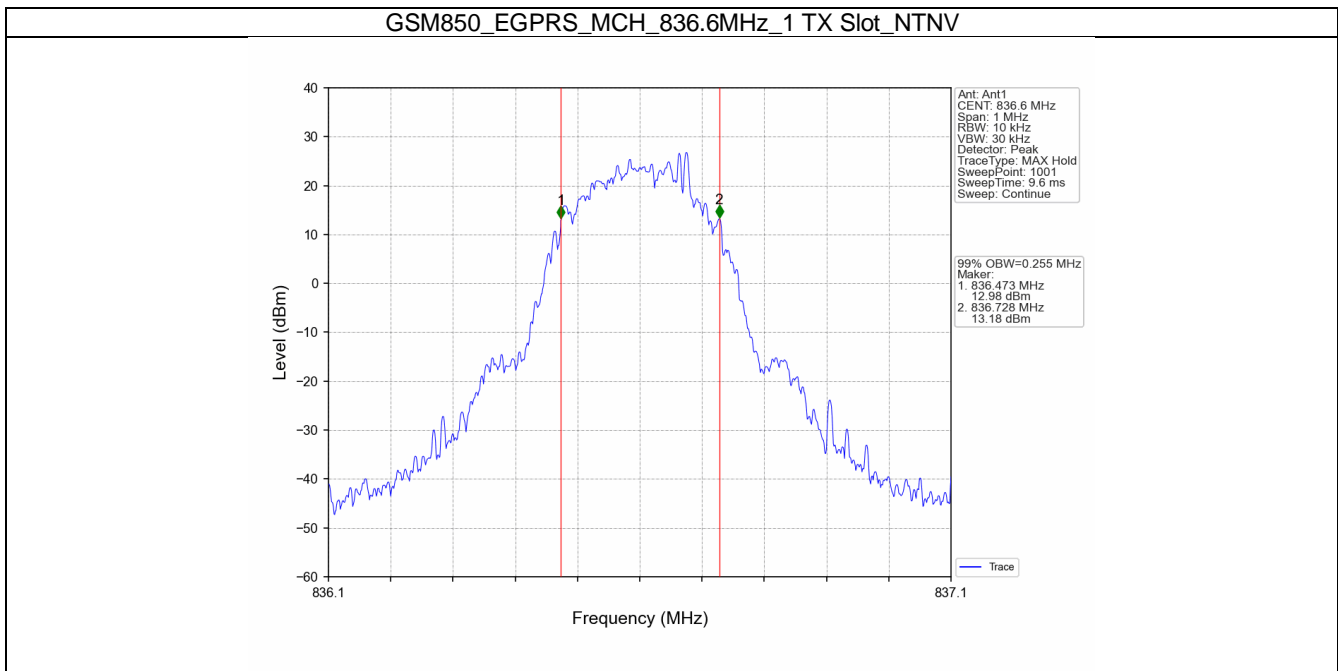
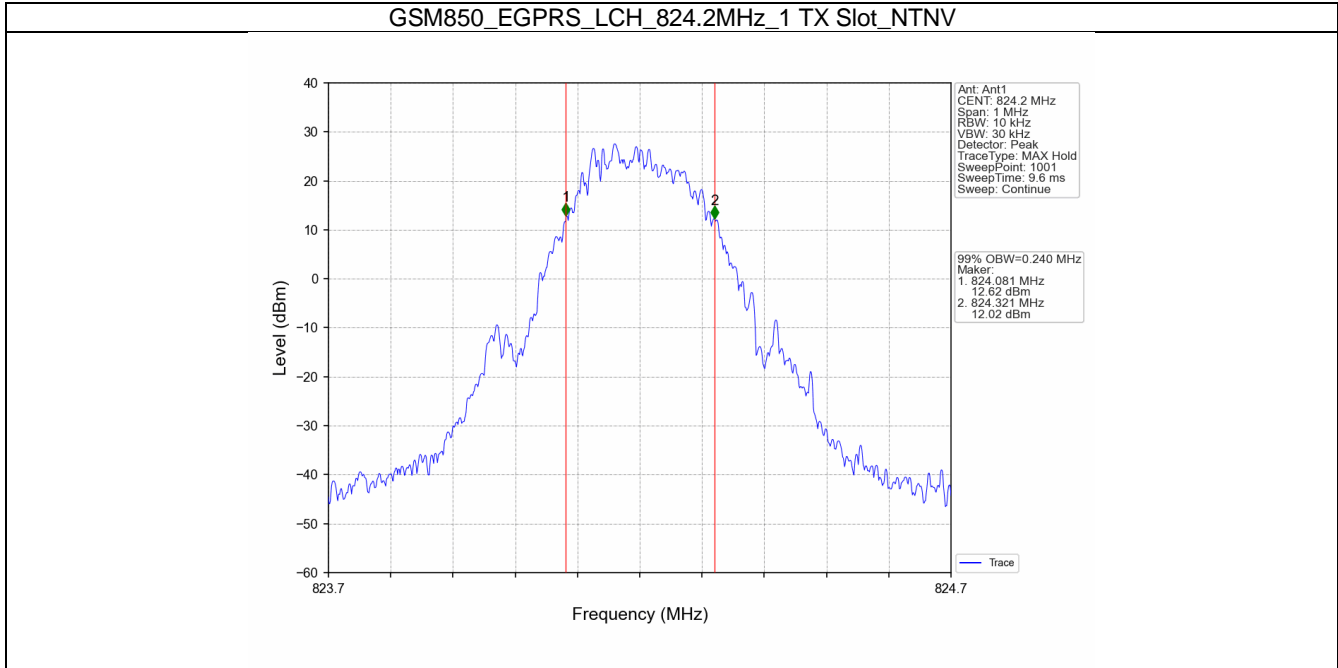
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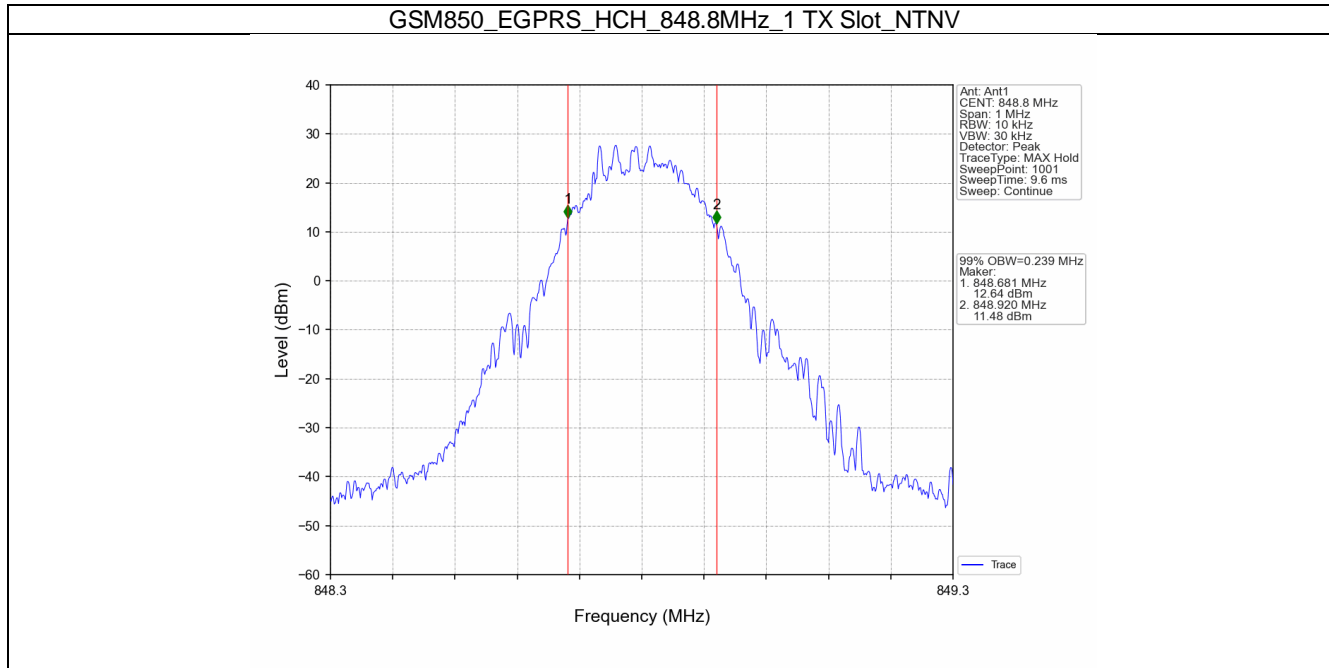
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Report No.: SEWM2311000466RG01

Rev.: 01

Page: 13 of 29

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	0.314	/	Pass
			836.6	0.313	/	Pass
			848.8	0.319	/	Pass
	EGPRS	1 TX Slot	824.2	0.308	/	Pass
			836.6	0.313	/	Pass
			848.8	0.307	/	Pass



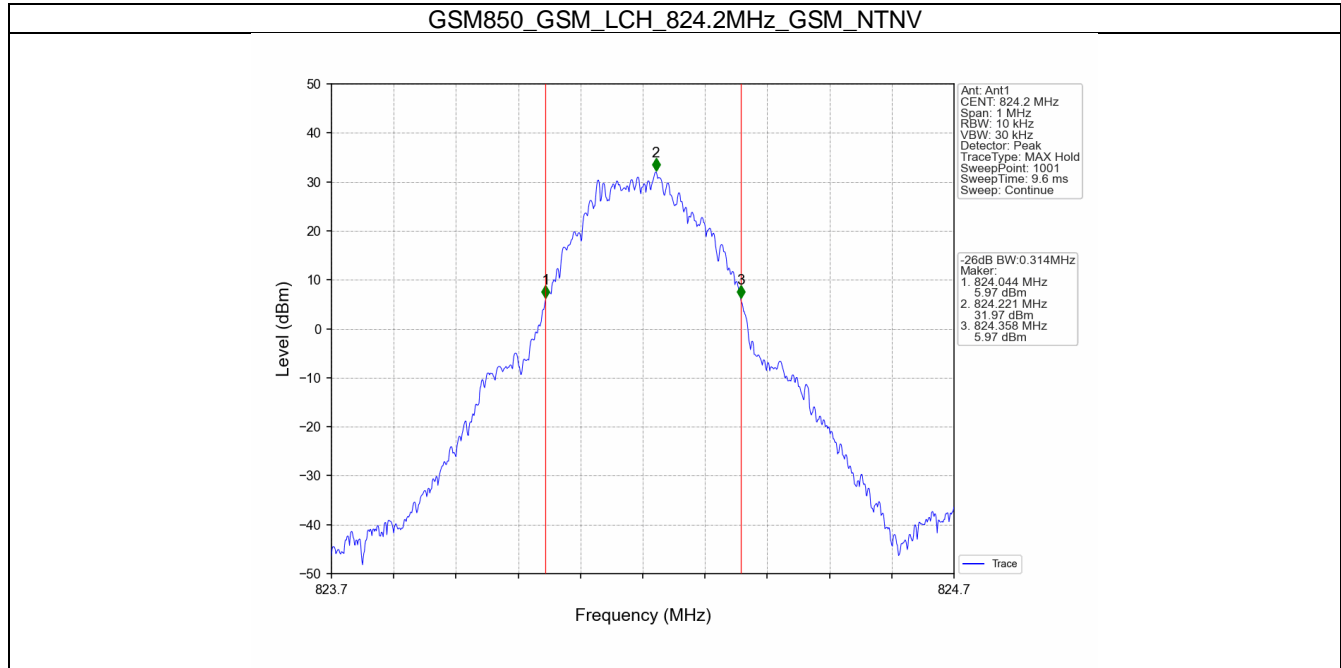
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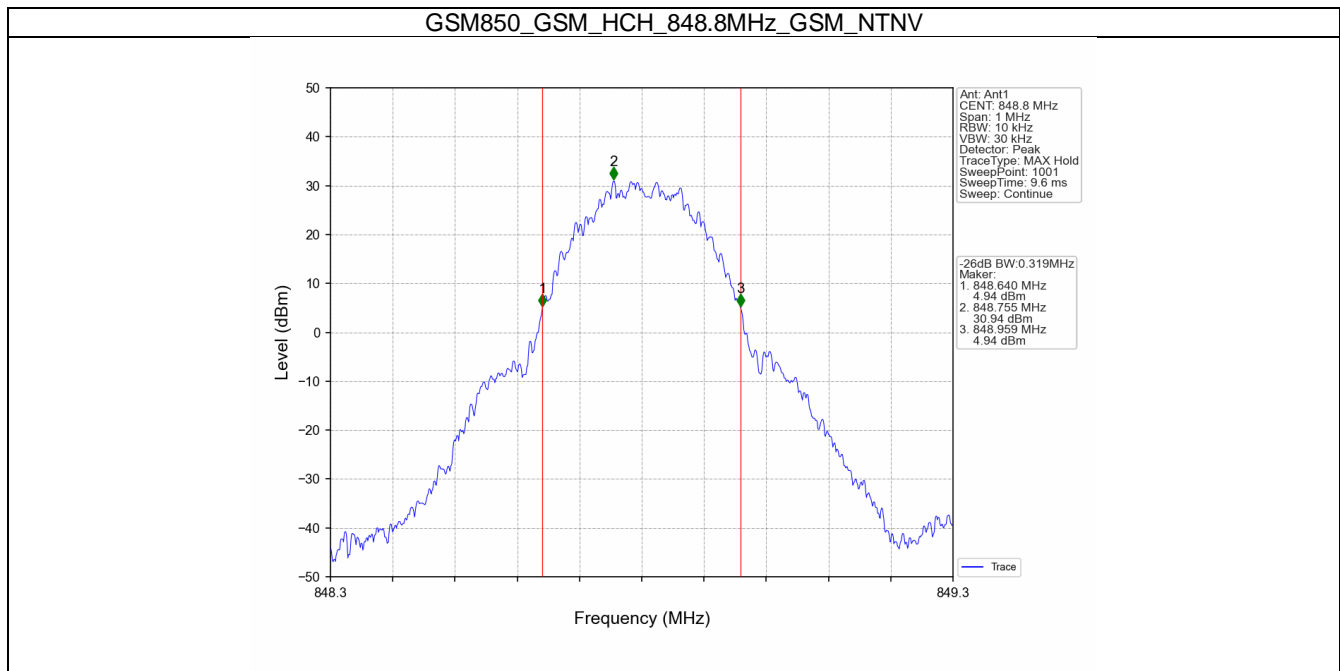
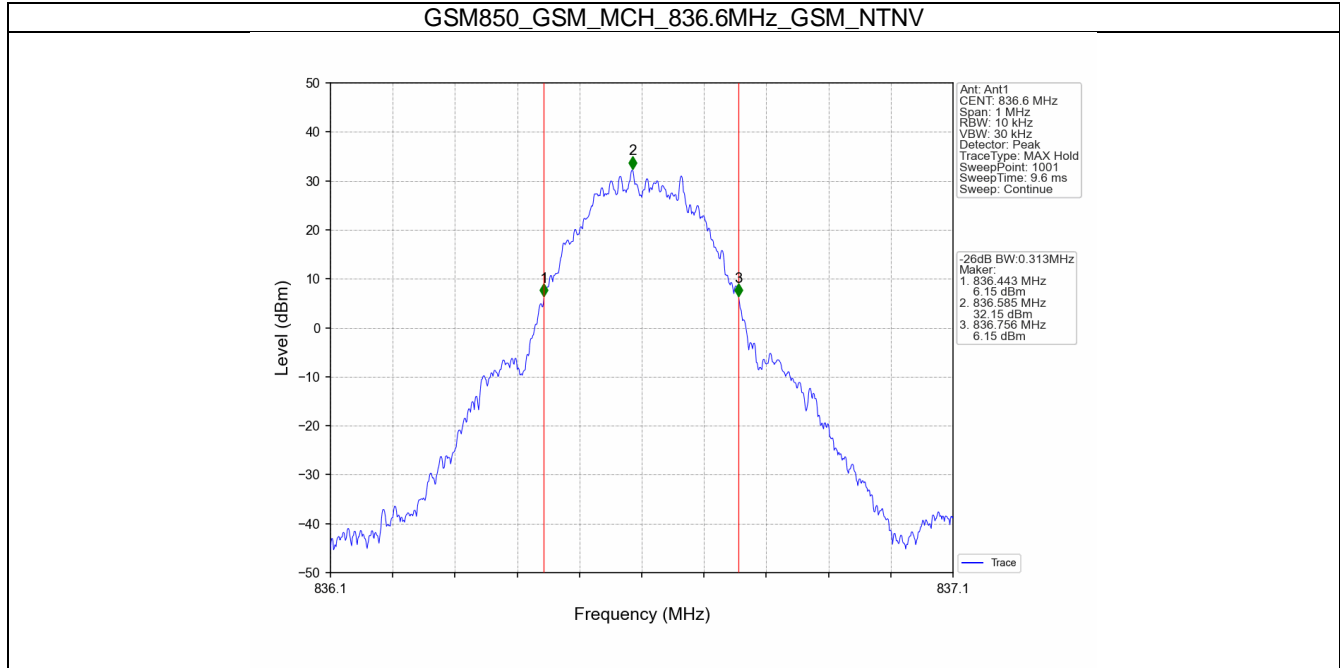
4.2.2 Test Graph



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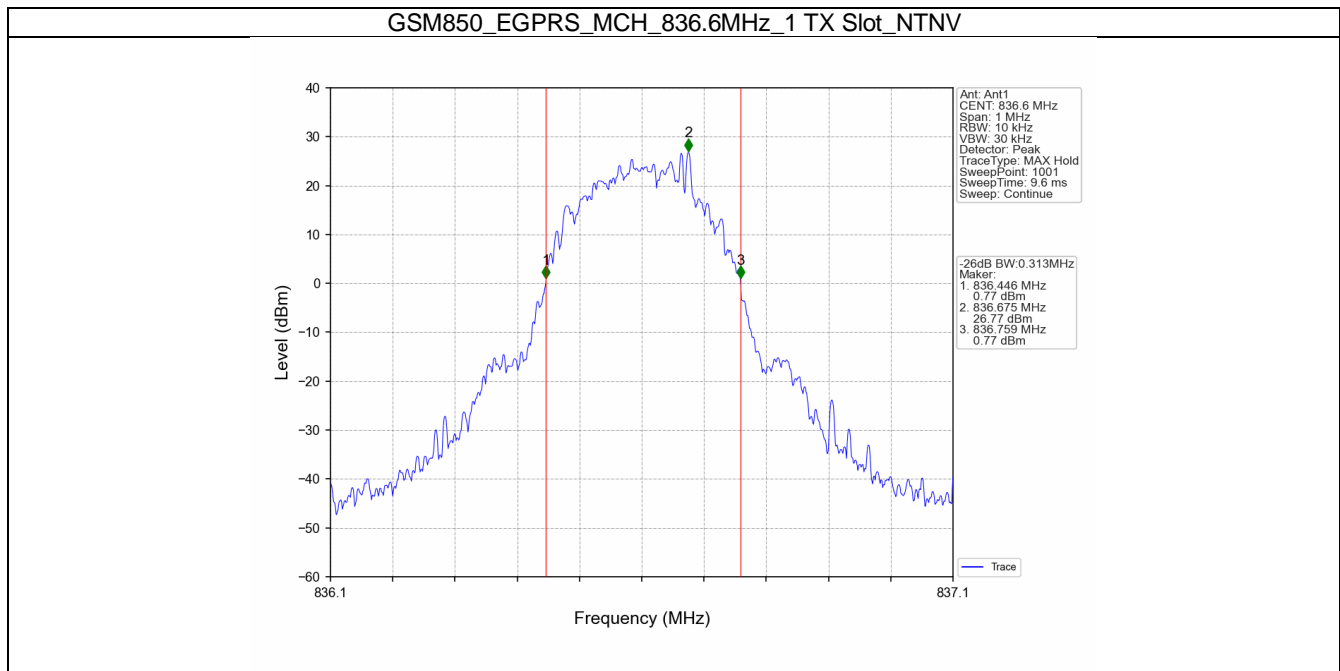
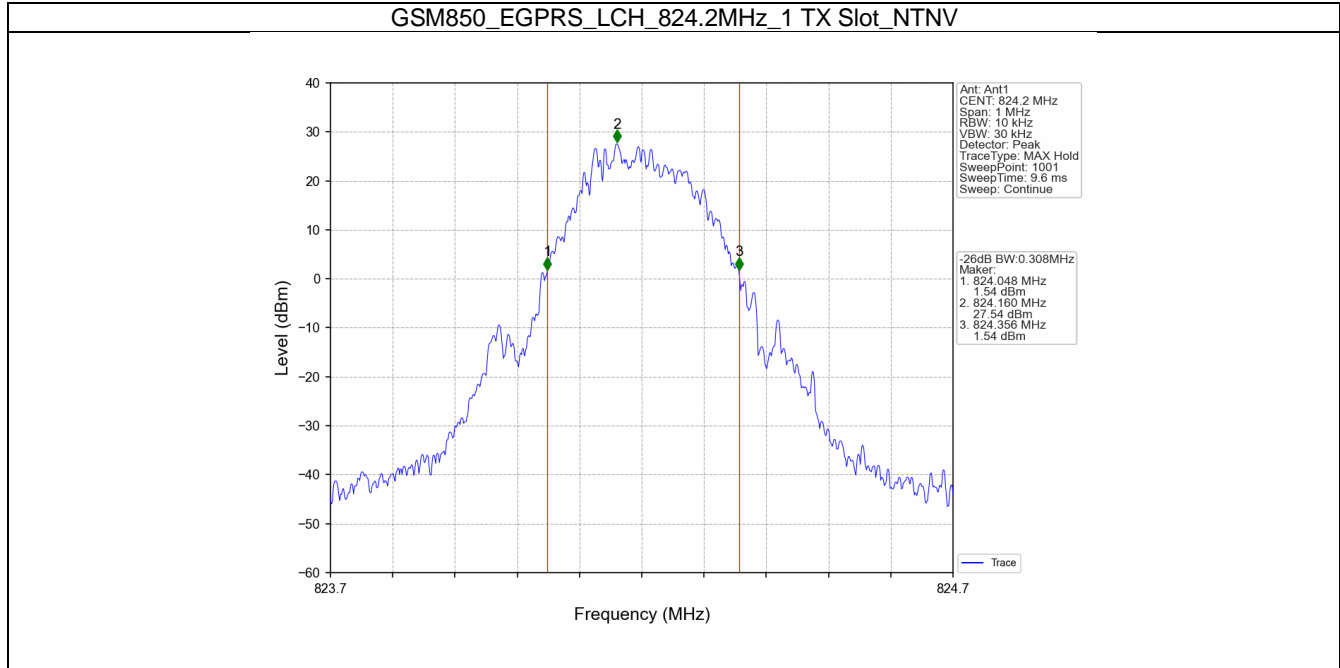
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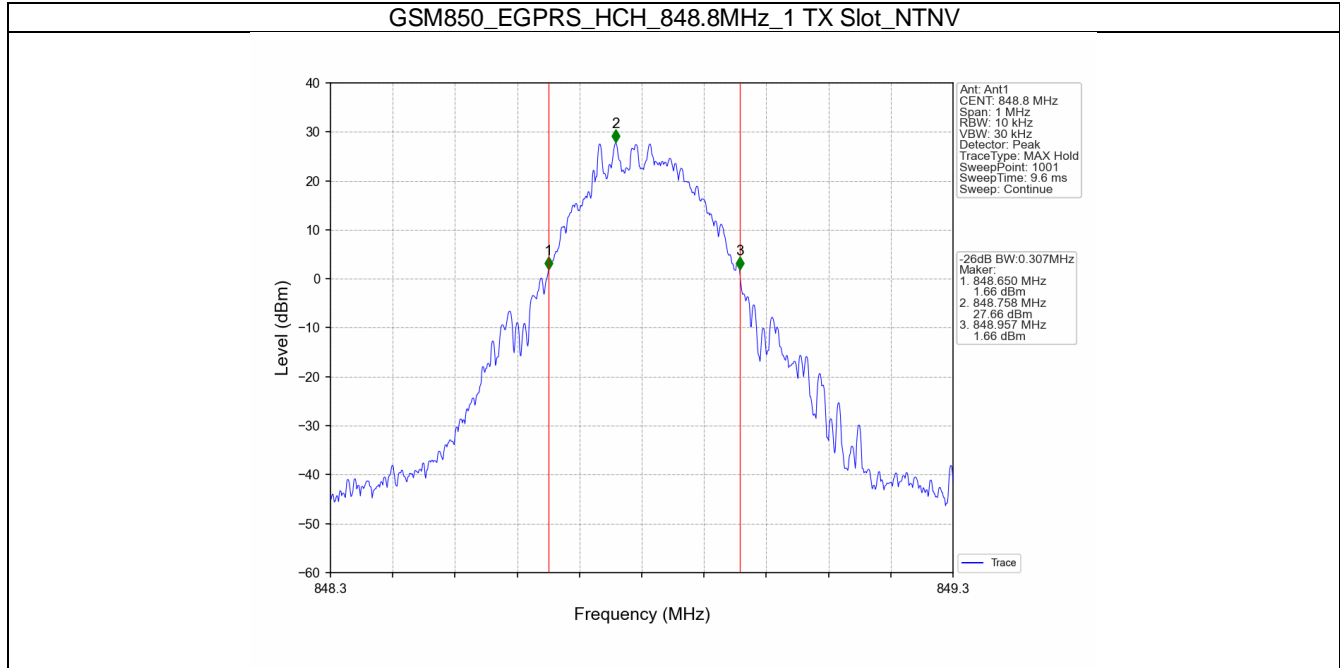
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5. Peak-Average Ratio

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	9.54	<=13	Pass
			836.6	9.64	<=13	Pass
			848.8	9.63	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.86	<=13	Pass
			836.6	10.01	<=13	Pass
			848.8	6.64	<=13	Pass

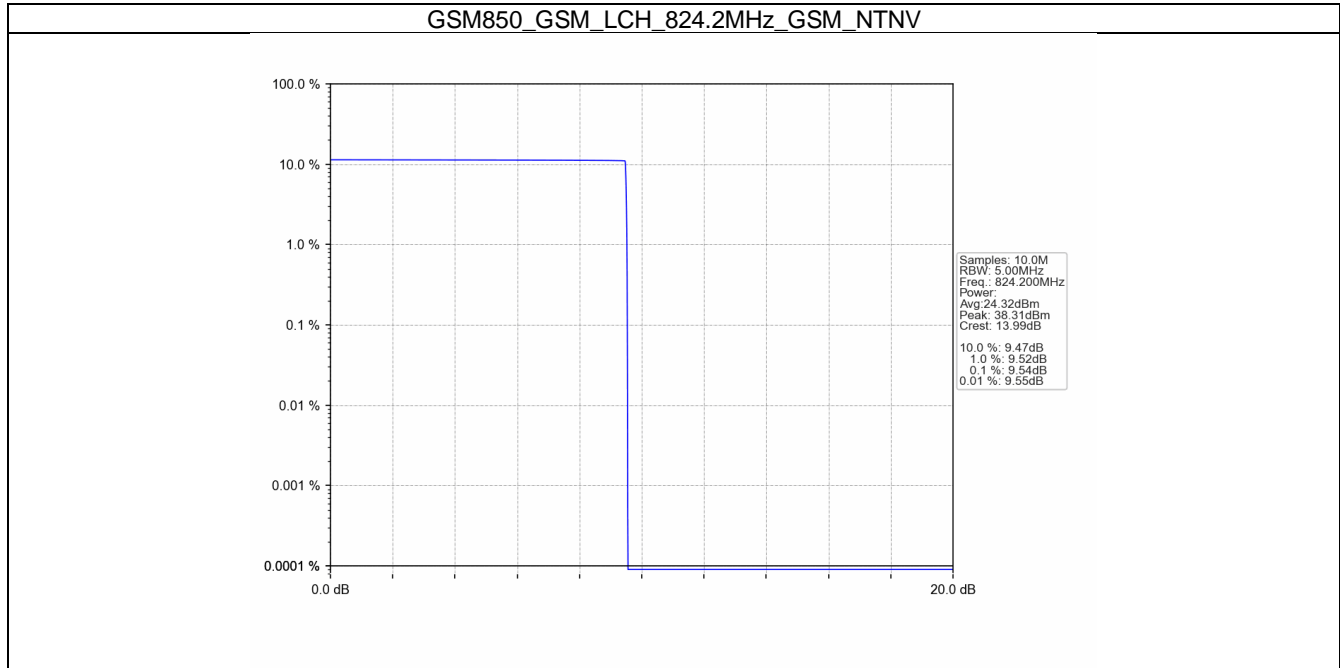


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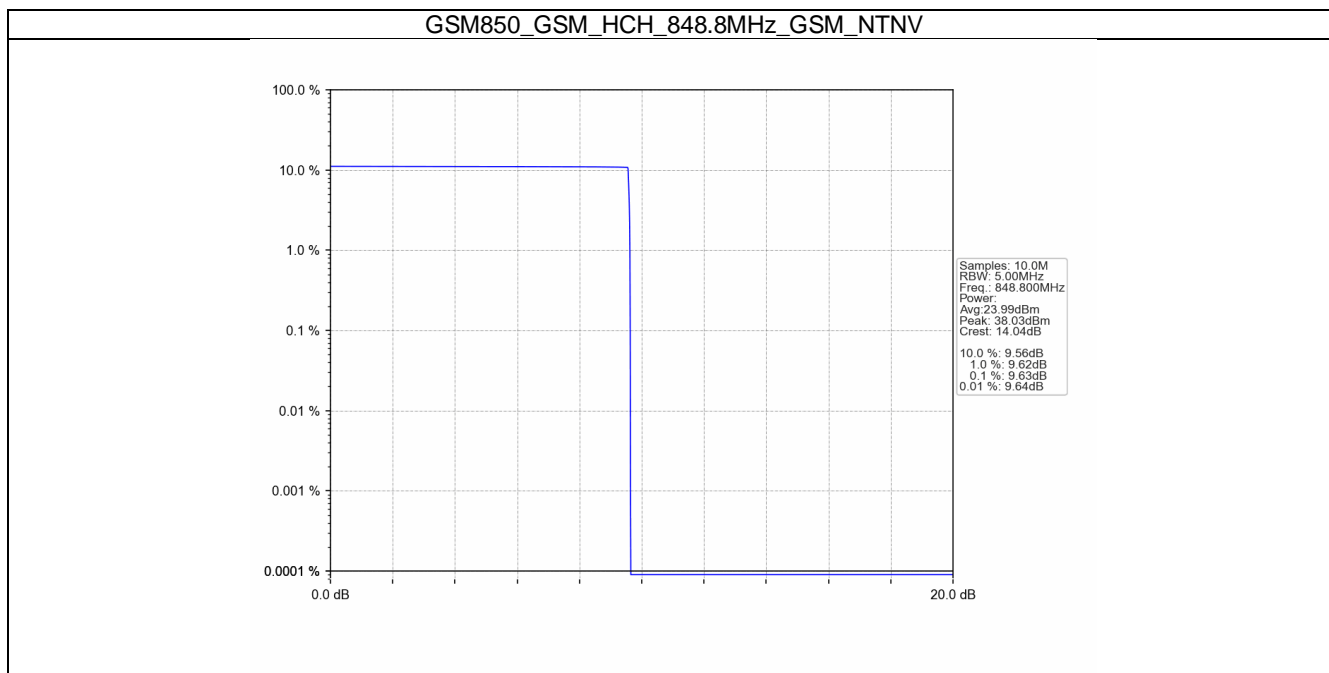
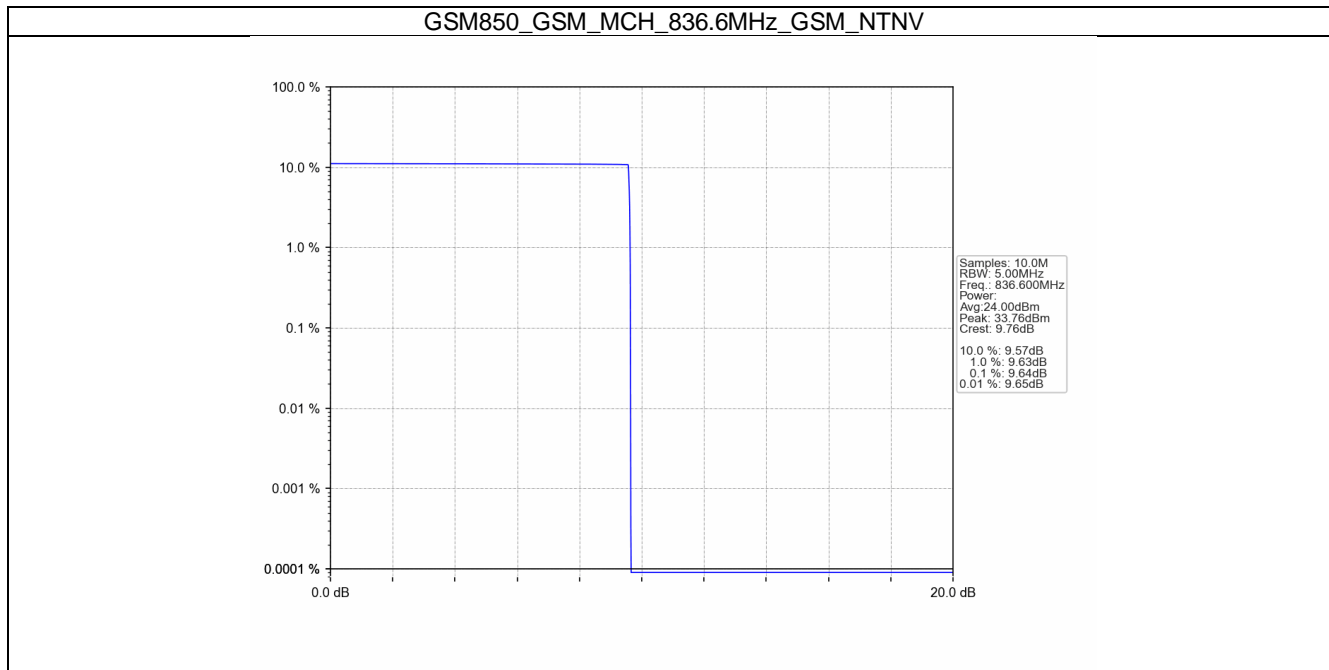
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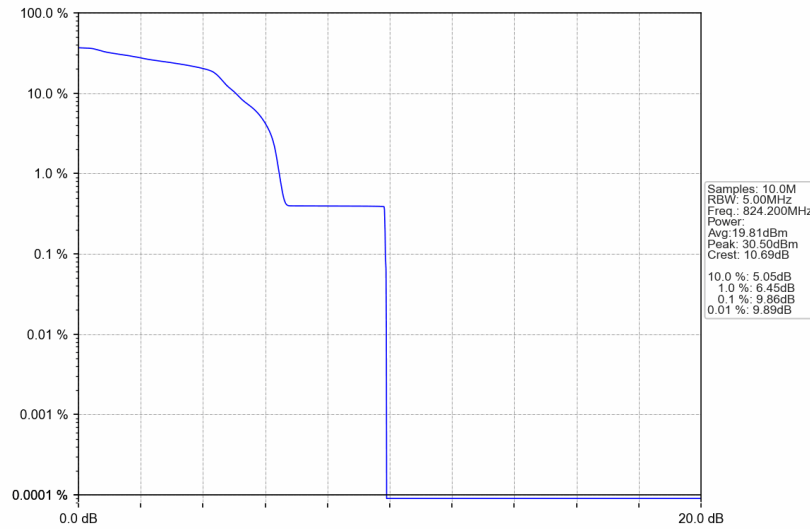


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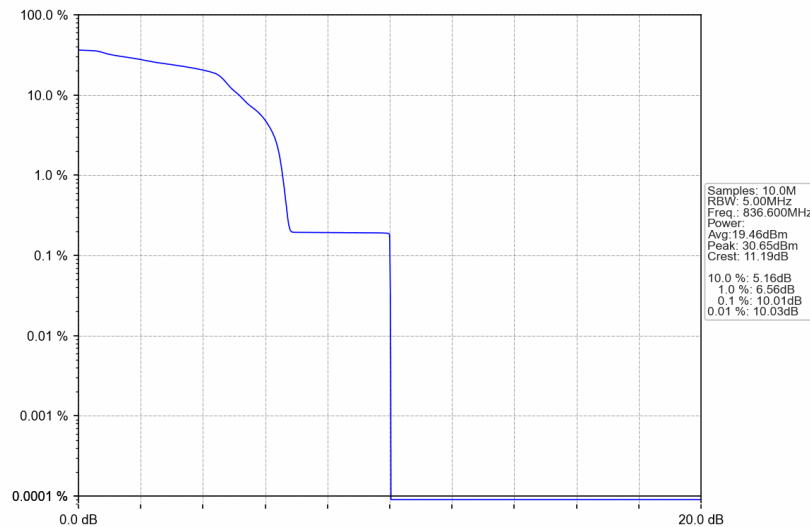
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GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV

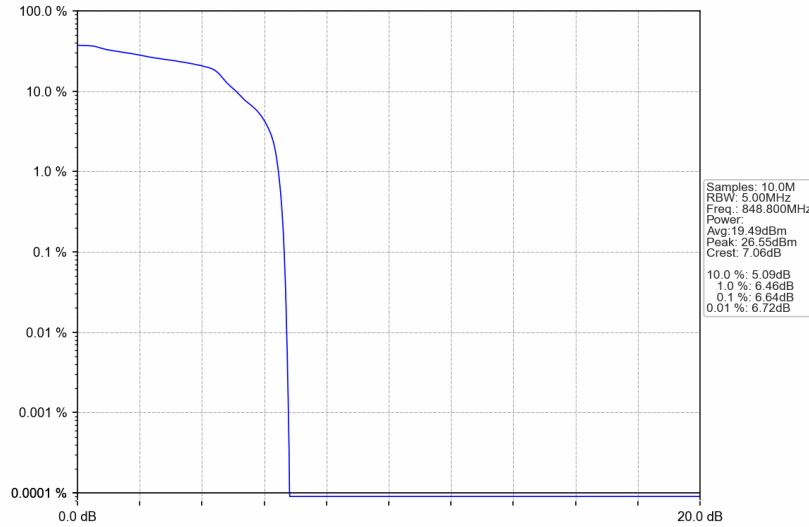


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GSM850_EGPRS_HCH_848.8MHz_4 TX Slots_NTNV



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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

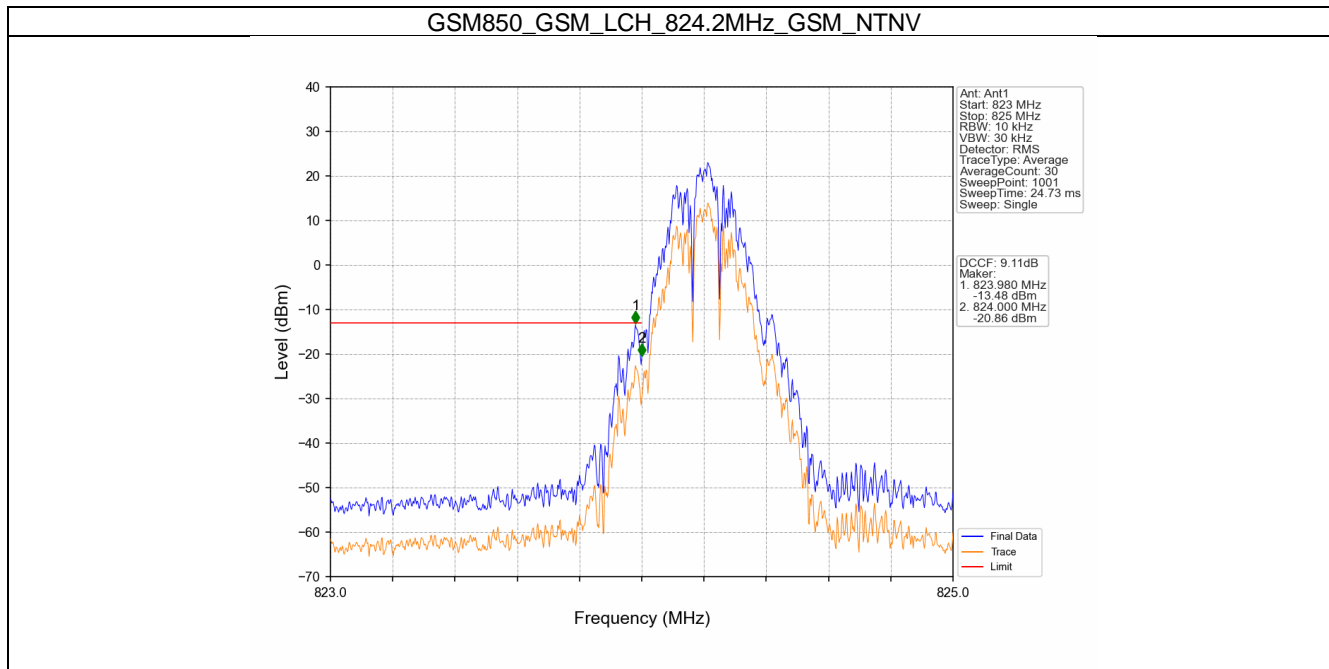


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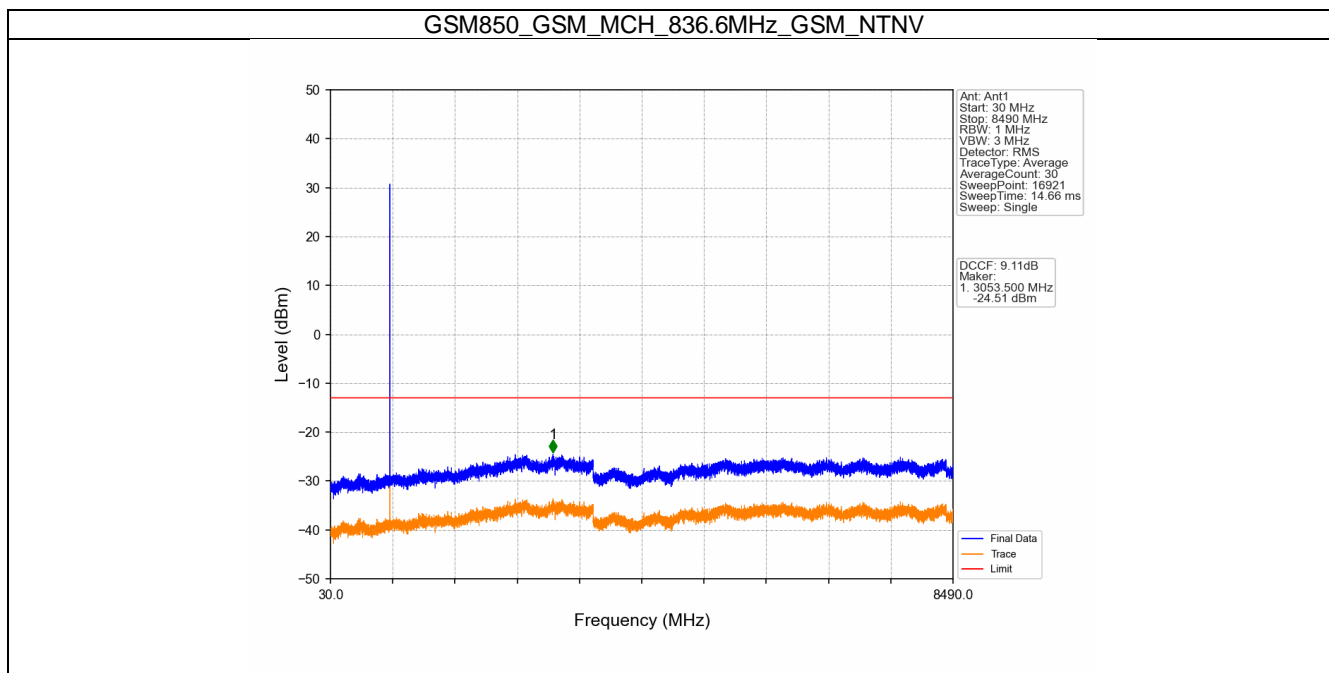
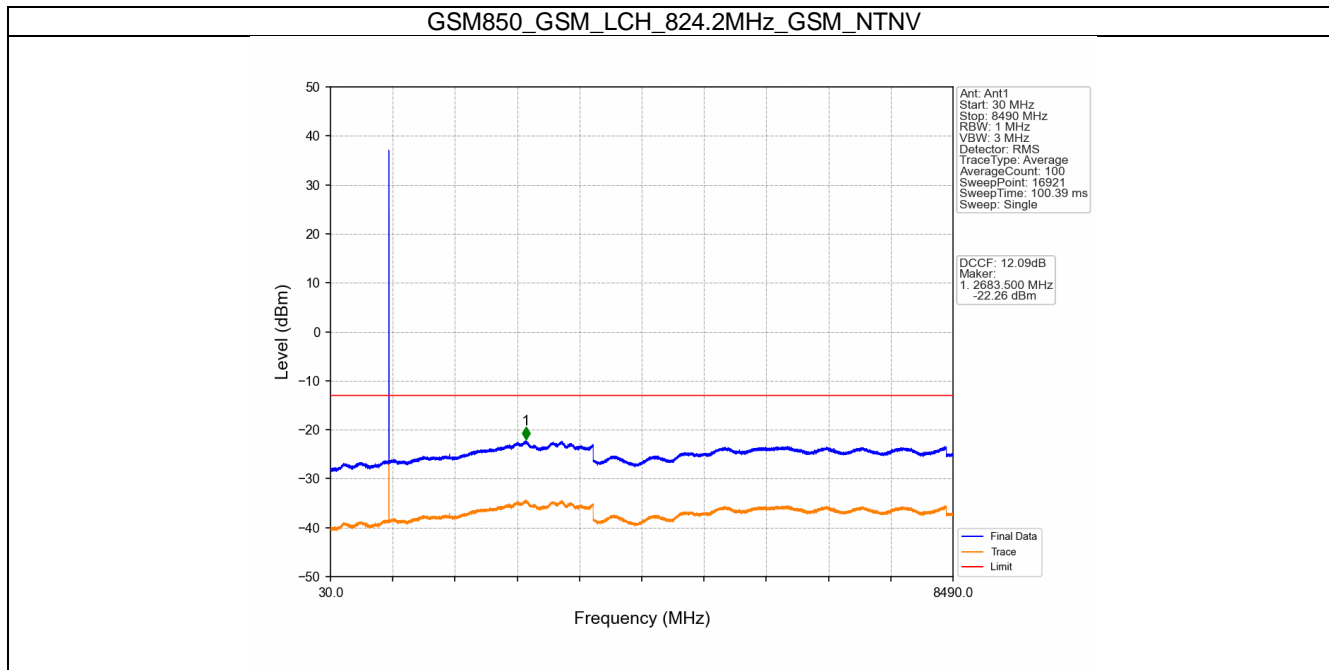
6.1.2 Test Graph



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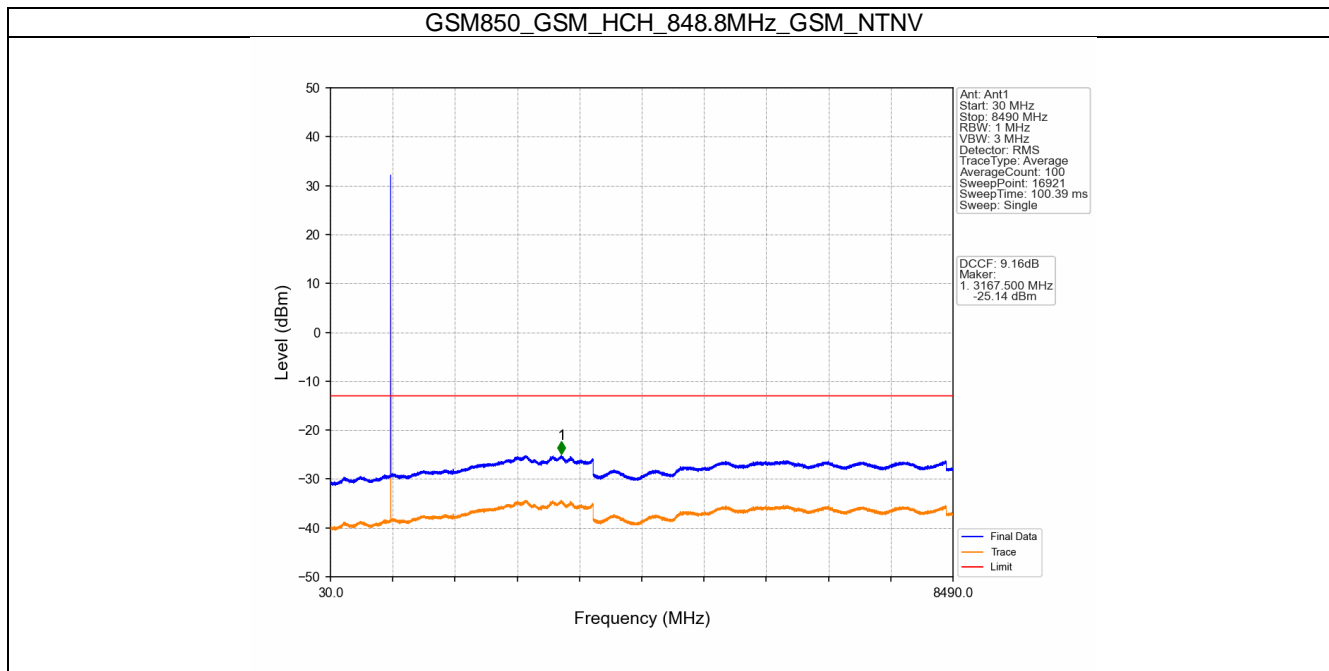
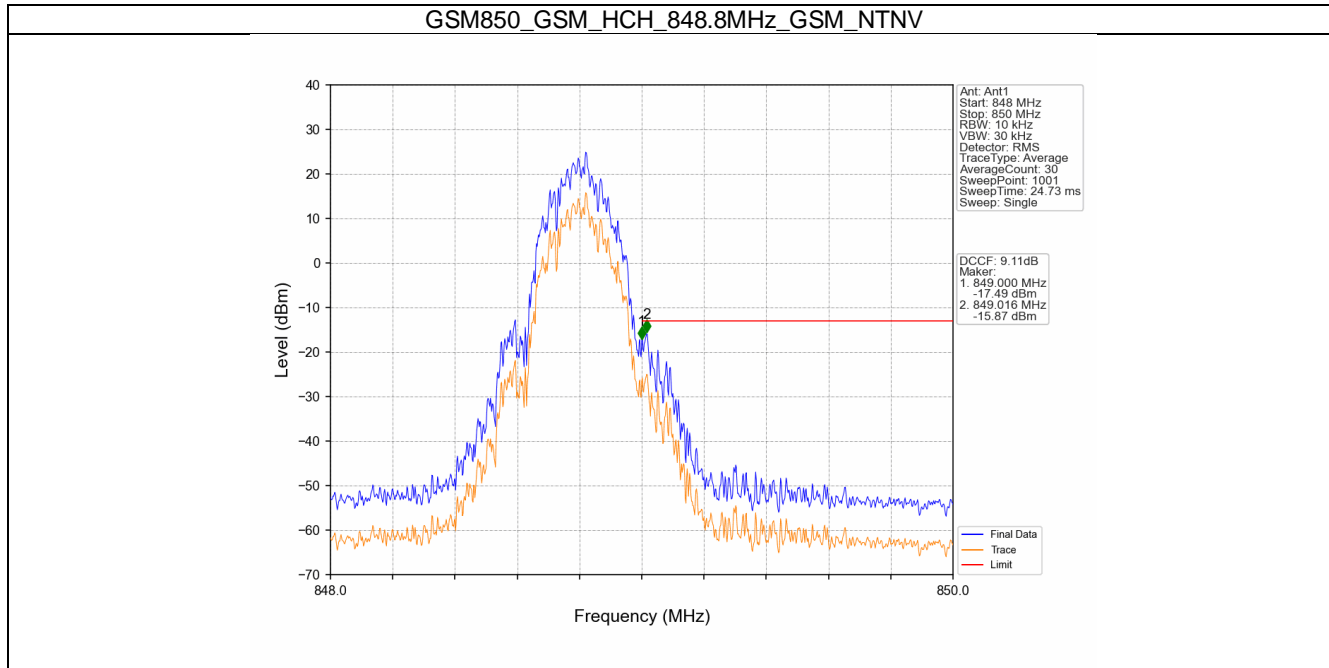
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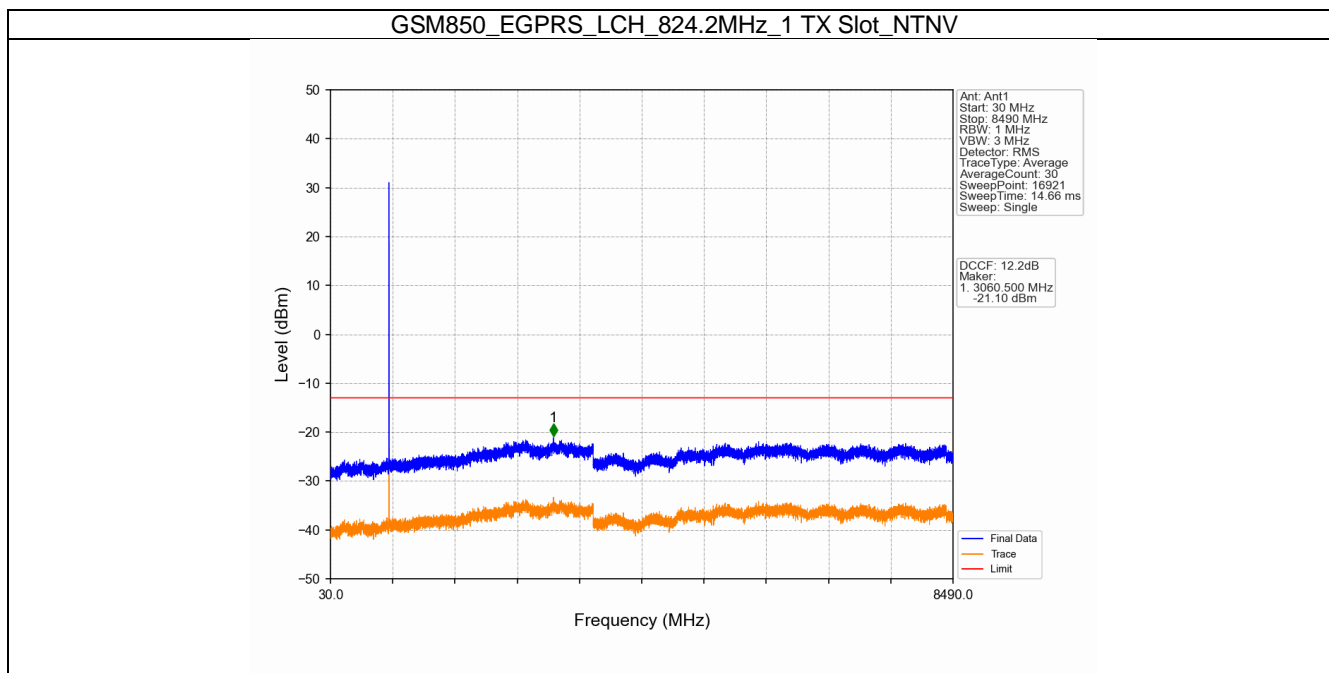
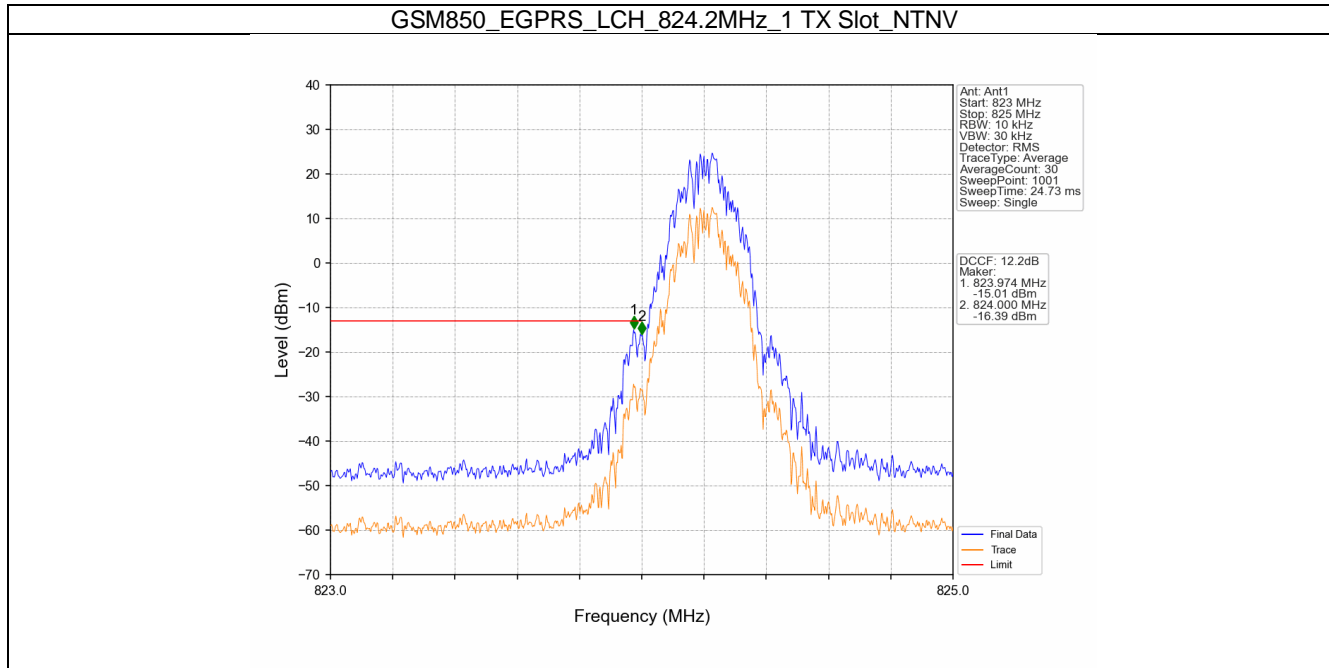
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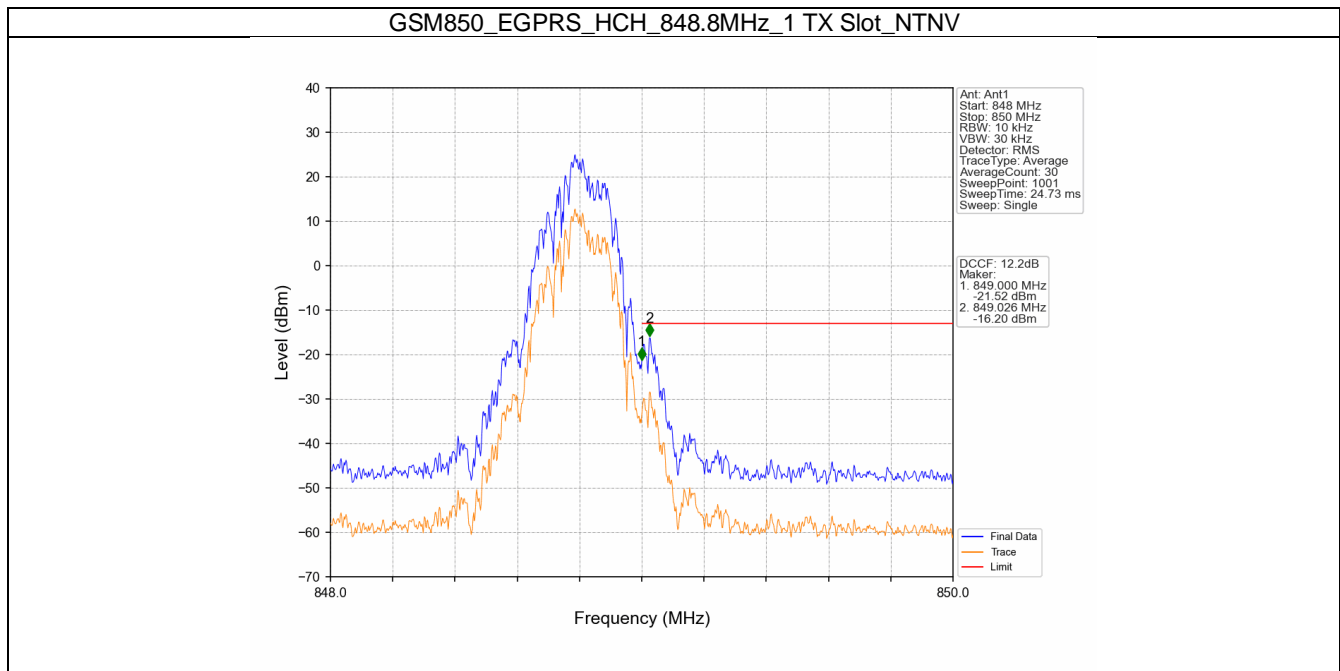
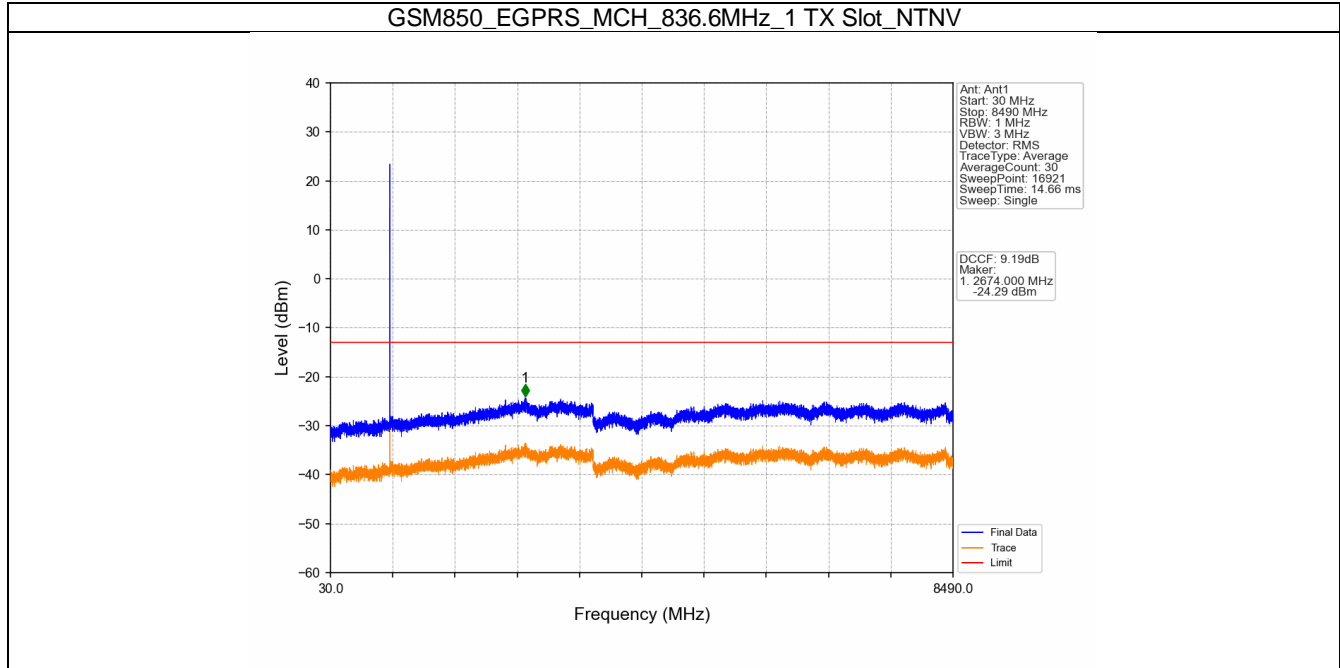
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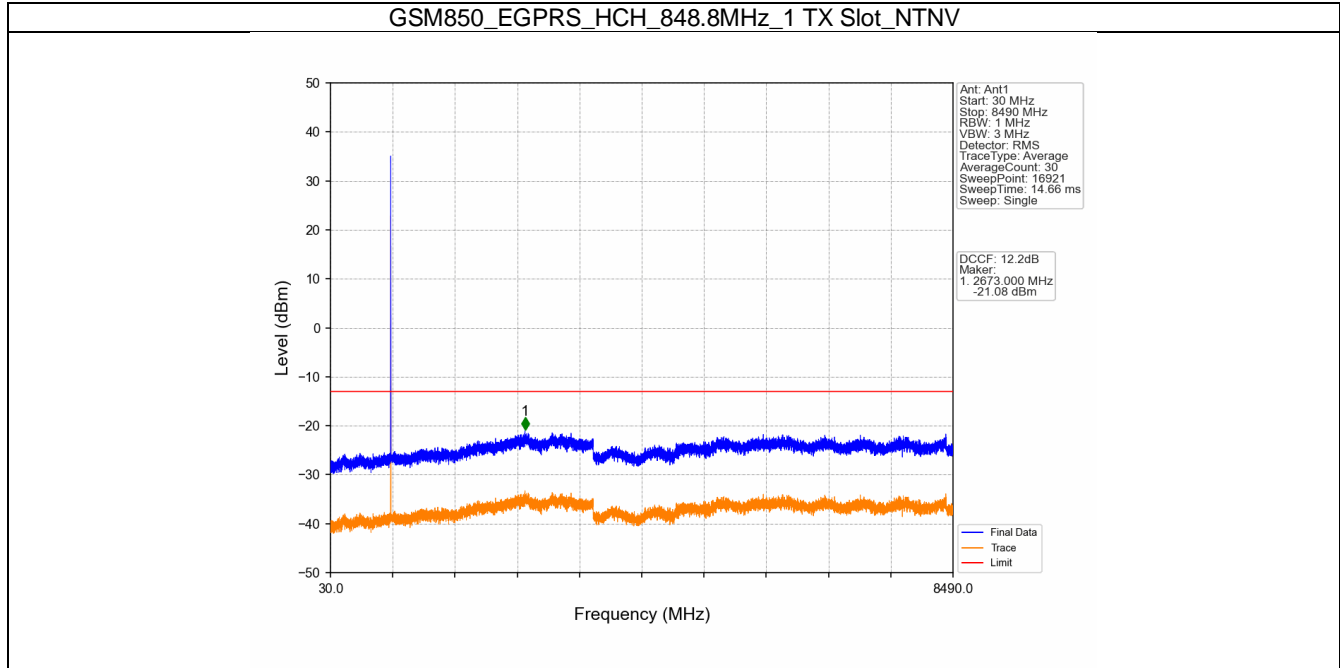
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