

Report No.: SEWM2311000456RG01

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Appendix B.1

GSM 850



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1. Effective (Isotropic) Radiated Power Output Data

1.1 GSM850 ERP

1.1.1 Test Result

				Band: GSM850							
ENV	N	/lode	Frequency	Conducted Power	Gain	ERP	(dBm)	Verdict			
EINV	Network	Subset	(MHz)	(dBm)	(dBi)	Result	Limit	verdict			
			824.2	33.10	-4.10	26.85	<=38.45	Pass			
	GSM	GSM	836.6	33.27	-4.10	27.02	<=38.45	Pass			
			848.8	33.12	-4.10	26.87	<=38.45	Pass			
		1 TX Slot	824.2	33.09	-4.10	26.84	<=38.45	Pass			
		2 TX Slots	824.2	30.86	-4.10	24.61	<=38.45	Pass			
		3 TX Slots	824.2	29.05	-4.10	22.80	<=38.45	Pass			
		4 TX Slots	824.2	27.08	-4.10	20.83	<=38.45	Pass			
		1 TX Slot	836.6	33.22	-4.10	26.97	<=38.45	Pass			
	GPRS	2 TX Slots	836.6	31.01	-4.10	24.76	<=38.45	Pass			
	GFKS	3 TX Slots	836.6	29.21	-4.10	22.96	<=38.45	Pass			
		4 TX Slots	836.6	27.24	-4.10	20.99	<=38.45	Pass			
		1 TX Slot	848.8	33.06	-4.10	26.81	<=38.45	Pass			
		2 TX Slots	848.8	30.85	-4.10	24.60	<=38.45	Pass			
NTNV		3 TX Slots	848.8	29.04	-4.10	22.79	<=38.45	Pass			
		4 TX Slots	848.8	27.07	-4.10	20.82	<=38.45	Pass			
		1 TX Slot	824.2	27.21	-4.10	20.96	<=38.45	Pass			
		2 TX Slots	824.2	24.87	-4.10	18.62	<=38.45	Pass			
		3 TX Slots	824.2	25.24	-4.10	18.99	<=38.45	Pass			
		4 TX Slots	824.2	23.54	-4.10	17.29	<=38.45	Pass			
		1 TX Slot	836.6	26.94	-4.10	20.69	<=38.45	Pass			
	EGPRS	2 TX Slots	836.6	24.78	-4.10	18.53	<=38.45	Pass			
	EGFKS	3 TX Slots	836.6	23.30	-4.10	17.05	<=38.45	Pass			
		4 TX Slots	836.6	21.90	-4.10	15.65	<=38.45	Pass			
		1 TX Slot	848.8	26.84	-4.10	20.59	<=38.45	Pass			
		2 TX Slots	848.8	24.59	-4.10	18.34	<=38.45	Pass			
		3 TX Slots	848.8	23.11	-4.10	16.86	<=38.45	Pass			
	4 TX Slots 848.8 21.63 -4.10 15.38 <=38.45 Pass										
Note1: E	RP=Conduct	ed Power+Anter	na Gain-2.15	·	· · · · · · · · · · · · · · · · · · ·	·	<u>-</u>				



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2. Frequency Stability

2.1 GSM850

2.1.1 Test Result

			Ва	and: GSM850			
Network	Frequency	Temp.	Voltage	Freq. Error	Freq. vs. F	ated (ppm)	Verdict
Network	(MHz)	(°C)	(VDC)	(Hz)	Result	Limit	verdict
			3.6	5.682	0.0069	-2.5 to 2.5	Pass
		20	3.84	2.938	0.0036	-2.5 to 2.5	Pass
			4.25	-3.455	-0.0042	-2.5 to 2.5	Pass
		-30	3.84	-3.519	-0.0043	-2.5 to 2.5	Pass
		-20	3.84	-1.388	-0.0017	-2.5 to 2.5	Pass
	824.2	-10	3.84	-1.647	-0.0020	-2.5 to 2.5	Pass
		0	3.84	-1.517	-0.0018	-2.5 to 2.5	Pass
		10	3.84	-3.874	-0.0047	-2.5 to 2.5	Pass
		30	3.84	1.679	0.0020	-2.5 to 2.5	Pass
		40	3.84	-9.653	-0.0117	-2.5 to 2.5	Pass
		50	3.84	-8.039	-0.0098	-2.5 to 2.5	Pass
			3.6	-3.745	-0.0045	-2.5 to 2.5	Pass
		20	3.84	-2.938	-0.0035	-2.5 to 2.5	Pass
			4.25	-5.392	-0.0064	-2.5 to 2.5	Pass
		-30	3.84	-1.033	-0.0012	-2.5 to 2.5	Pass
		-20	3.84	-1.485	-0.0018	-2.5 to 2.5	Pass
GSM	836.6	-10	3.84	-4.875	-0.0058	-2.5 to 2.5	Pass
		0	3.84	-3.777	-0.0045	-2.5 to 2.5	Pass
		10	3.84	-3.810	-0.0046	-2.5 to 2.5	Pass
		30	3.84	-1.324	-0.0016	-2.5 to 2.5	Pass
			40	3.84	-4.811	-0.0058	-2.5 to 2.5
		50	3.84	-1.550	-0.0019	-2.5 to 2.5	Pass
			3.6	-2.486	-0.0029	-2.5 to 2.5	Pass
		20	3.84	-1.065	-0.0013	-2.5 to 2.5	Pass
			4.25	-0.484	-0.0006	-2.5 to 2.5	Pass
		-30	3.84	-2.712	-0.0032	-2.5 to 2.5	Pass
		-20	3.84	0.452	0.0005	-2.5 to 2.5	Pass
	848.8	-10	3.84	-1.485	-0.0017	-2.5 to 2.5	Pass
		0	3.84	-2.454	-0.0029	-2.5 to 2.5	Pass
		10	3.84	1.453	0.0017	-2.5 to 2.5	Pass
		30	3.84	-0.065	-0.0001	-2.5 to 2.5	Pass
		40	3.84	0.226	0.0003	-2.5 to 2.5	Pass
		50	3.84	1.324	0.0016	-2.5 to 2.5	Pass
			3.6	0.969	0.0012	-2.5 to 2.5	Pass
		20	3.84	-3.293	-0.0040	-2.5 to 2.5	Pass
CDDC	004.0		4.25	-5.198	-0.0063	-2.5 to 2.5	Pass
GPRS	824.2	-30	3.84	-0.678	-0.0008	-2.5 to 2.5	Pass
		-20	3.84	-5.295	-0.0064	-2.5 to 2.5	Pass
		-10	3.84	-2.712	-0.0033	-2.5 to 2.5	Pass



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		0	3.84	-4.972	-0.0060	-2.5 to 2.5	Pass
		10	3.84	-5.456	-0.0066	-2.5 to 2.5	Pass
		30	3.84	-6.522	-0.0079	-2.5 to 2.5	Pass
		40	3.84	-7.781	-0.0094	-2.5 to 2.5	Pass
		50	3.84	-6.909	-0.0084	-2.5 to 2.5	Pass
•		- 55	3.6	-5.618	-0.0067	-2.5 to 2.5	Pass
		20	3.84	-9.621	-0.0115	-2.5 to 2.5	Pass
		20	4.25	-5.230	-0.0063	-2.5 to 2.5	Pass
		-30	3.84	-8.233	-0.0098	-2.5 to 2.5	Pass
		-20	3.84	-6.231	-0.0074	-2.5 to 2.5	Pass
	836.6	-10	3.84	-6.554	-0.0078	-2.5 to 2.5	Pass
	000.0	0	3.84	-4.681	-0.0056	-2.5 to 2.5	Pass
		10	3.84	-4.003	-0.0048	-2.5 to 2.5	Pass
		30	3.84	-6.296	-0.0075	-2.5 to 2.5	Pass
		40	3.84	-2.518	-0.0073	-2.5 to 2.5	Pass
		50	3.84	-3.551	-0.0030	-2.5 to 2.5	Pass
}		30	3.6	-2.260	-0.0042	-2.5 to 2.5	Pass
		20	3.84	-2.260 -4.003	-0.0027	-2.5 to 2.5	Pass
		20	4.25	- 4 .003 -5.618	-0.0047	-2.5 to 2.5	Pass
		-30	3.84	-2.970	-0.0086	-2.5 to 2.5	
		-20	3.84		-0.0035		Pass Pass
	848.8	-20	3.84	-3.810 -7.297	-0.0045	-2.5 to 2.5 -2.5 to 2.5	
	040.0			-7.297 -5.392			Pass
		10	3.84 3.84		-0.0064 -0.0037	-2.5 to 2.5 -2.5 to 2.5	Pass Pass
				-3.099			
		30 40	3.84	-5.876	-0.0069	-2.5 to 2.5	Pass
		50	3.84	-5.198	-0.0061	-2.5 to 2.5	Pass
		50	3.84	-6.554	-0.0077	-2.5 to 2.5	Pass
		20	3.6	-7.135	-0.0087	-2.5 to 2.5	Pass
		20	3.84	-8.136	-0.0099	-2.5 to 2.5	Pass
		20	4.25	-5.133	-0.0062	-2.5 to 2.5	Pass
		-30	3.84	-4.552	-0.0055	-2.5 to 2.5	Pass
	004.0	-20	3.84	-6.522	-0.0079	-2.5 to 2.5	Pass
	824.2	-10	3.84	-10.751	-0.0130	-2.5 to 2.5	Pass
		0	3.84	-7.103	-0.0086	-2.5 to 2.5	Pass
		10	3.84	-9.815	-0.0119	-2.5 to 2.5	Pass
		30	3.84	-8.394 6.977	-0.0102	-2.5 to 2.5	Pass
		40	3.84	-6.877	-0.0083	-2.5 to 2.5	Pass
EGPRS		50	3.84	-9.008 10.138	-0.0109	-2.5 to 2.5	Pass
		00	3.6	-10.138	-0.0121	-2.5 to 2.5	Pass
		20	3.84	-4.326	-0.0052	-2.5 to 2.5	Pass
		- 00	4.25	-4.133	-0.0049	-2.5 to 2.5	Pass
		-30	3.84	-7.813	-0.0093	-2.5 to 2.5	Pass
	000.0	-20	3.84	-7.297	-0.0087	-2.5 to 2.5	Pass
	836.6	-10	3.84	-2.712	-0.0032	-2.5 to 2.5	Pass
		0	3.84	-5.198	-0.0062	-2.5 to 2.5	Pass
		10	3.84	-6.554	-0.0078	-2.5 to 2.5	Pass
		30	3.84	-5.715	-0.0068	-2.5 to 2.5	Pass
		40	3.84	-8.459	-0.0101	-2.5 to 2.5	Pass
		50	3.84	-5.133	-0.0061	-2.5 to 2.5	Pass



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			. ~5	,o.	00	
		3.6	-4.649	-0.0055	-2.5 to 2.5	Pass
	20	3.84	-7.297	-0.0086	-2.5 to 2.5	Pass
		4.25	-7.587	-0.0089	-2.5 to 2.5	Pass
	-30	3.84	-6.586	-0.0078	-2.5 to 2.5	Pass
	-20	3.84	-6.619	-0.0078	-2.5 to 2.5	Pass
848.8	-10	3.84	-7.910	-0.0093	-2.5 to 2.5	Pass
	0	3.84	-4.972	-0.0059	-2.5 to 2.5	Pass
	10	3.84	-7.006	-0.0083	-2.5 to 2.5	Pass
	30	3.84	-6.489	-0.0076	-2.5 to 2.5	Pass
	40	3.84	-6.393	-0.0075	-2.5 to 2.5	Pass
	50	3.84	-8.168	-0.0096	-2.5 to 2.5	Pass



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3. Field Strength of Spurious Radiation

Test Band = GSM 850_ Test Channel = Low Channel

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1648.4	68.52	-49.83	25.29	-51.27	-13.00	38.27	Horizontal			
2	2472.6	64.25	-49.06	27.27	-52.80	-13.00	39.80	Horizontal			
3	3296.8	50.42	-48.63	28.62	-64.85	-13.00	51.85	Horizontal			
4	4121	44.48	-48.28	29.62	-69.44	-13.00	56.44	Horizontal			
5	4945.2	44.24	-48.07	31.37	-67.73	-13.00	54.73	Horizontal			
6	5769.4	44.69	-47.65	32.75	-65.47	-13.00	52.47	Horizontal			

Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity		
1	1648.4	68.40	-49.83	25.29	-51.39	-13.00	38.39	Vertical		
2	2472.6	57.61	-49.06	27.27	-59.44	-13.00	46.44	Vertical		
3	3296.8	48.72	-48.63	28.62	-66.55	-13.00	53.55	Vertical		
4	4121	44.74	-48.28	29.62	-69.18	-13.00	56.18	Vertical		
5	4945.2	45.01	-48.07	31.37	-66.96	-13.00	53.96	Vertical		
6	5769.4	44.80	-47.65	32.75	-65.36	-13.00	52.36	Vertical		



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Test Band = GSM 850_ Test Channel = Mid Channel

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1672.8	46.59	-49.78	25.39	-73.06	-13.00	60.06	Horizontal			
2	2509.2	45.81	-48.93	27.32	-71.05	-13.00	58.05	Horizontal			
3	3345.6	44.99	-48.66	28.64	-70.29	-13.00	57.29	Horizontal			
4	4182	44.09	-48.34	29.73	-69.78	-13.00	56.78	Horizontal			
5	5018.4	44.11	-47.95	31.54	-67.56	-13.00	54.56	Horizontal			
6	5854.8	44.98	-47.33	32.77	-64.84	-13.00	51.84	Horizontal			

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1672.8	46.30	-49.78	25.39	-73.35	-13.00	60.35	Vertical			
2	2509.2	45.85	-48.93	27.32	-71.01	-13.00	58.01	Vertical			
3	3345.6	45.33	-48.66	28.64	-69.95	-13.00	56.95	Vertical			
4	4182	44.84	-48.34	29.73	-69.03	-13.00	56.03	Vertical			
5	5018.4	44.34	-47.95	31.54	-67.33	-13.00	54.33	Vertical			
6	5854.8	44.91	-47.33	32.77	-64.91	-13.00	51.91	Vertical			



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Test Band = GSM 850_ Test Channel = High Channel

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1697.6	46.91	-49.72	25.49	-72.58	-13.00	59.58	Horizontal			
2	2546.4	46.51	-49.03	27.41	-70.36	-13.00	57.36	Horizontal			
3	3395.2	45.84	-48.69	28.66	-69.45	-13.00	56.45	Horizontal			
4	4244	44.56	-48.21	29.84	-69.08	-13.00	56.08	Horizontal			
5	5092.8	44.76	-47.92	31.72	-66.70	-13.00	53.70	Horizontal			
6	5941.6	45.31	-47.26	32.79	-64.42	-13.00	51.42	Horizontal			

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	1697.6	46.68	-49.72	25.49	-72.81	-13.00	59.81	Vertical			
2	2546.4	47.09	-49.03	27.41	-69.78	-13.00	56.78	Vertical			
3	3395.2	46.34	-48.69	28.66	-68.95	-13.00	55.95	Vertical			
4	4244	44.29	-48.21	29.84	-69.35	-13.00	56.35	Vertical			
5	5092.8	44.83	-47.92	31.72	-66.63	-13.00	53.63	Vertical			
6	5941.6	45.45	-47.26	32.79	-64.28	-13.00	51.28	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: GS	M850		
ENV	Mode		Frequency	99% Occupied Ba	andwidth (MHz)	Verdict
□IN V	Network	Subset	(MHz)	Result	Limit	verdict
			824.2	0.243	/	Pass
	GSM	GSM	836.6	0.241	/	Pass
			848.8	0.254	/	Pass
			824.2	0.252	/	Pass
NTNV	GPRS	1 TX Slot	836.6	0.241	/	Pass
			848.8	0.250	/	Pass
			824.2	0.248	/	Pass
	EGPRS	1 TX Slot	836.6	0.244	/	Pass
			848.8	0.238	/	Pass



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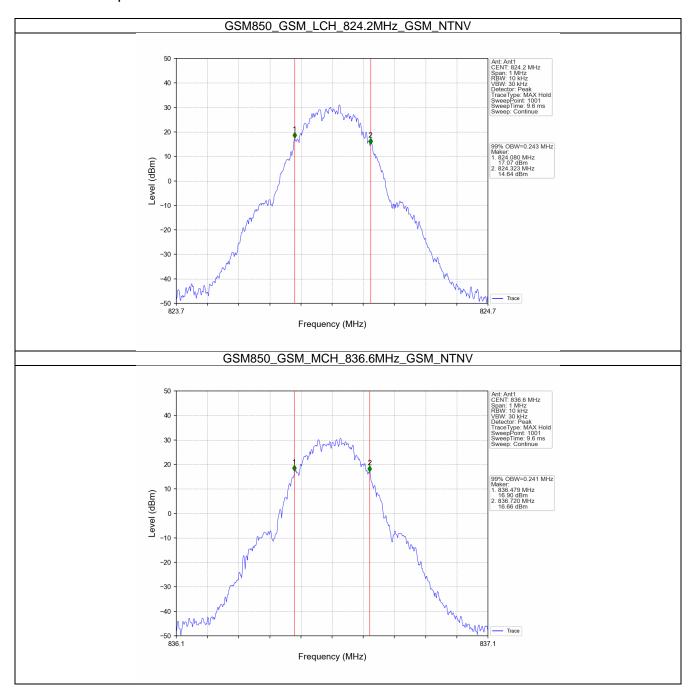


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4.1.2 Test Graph





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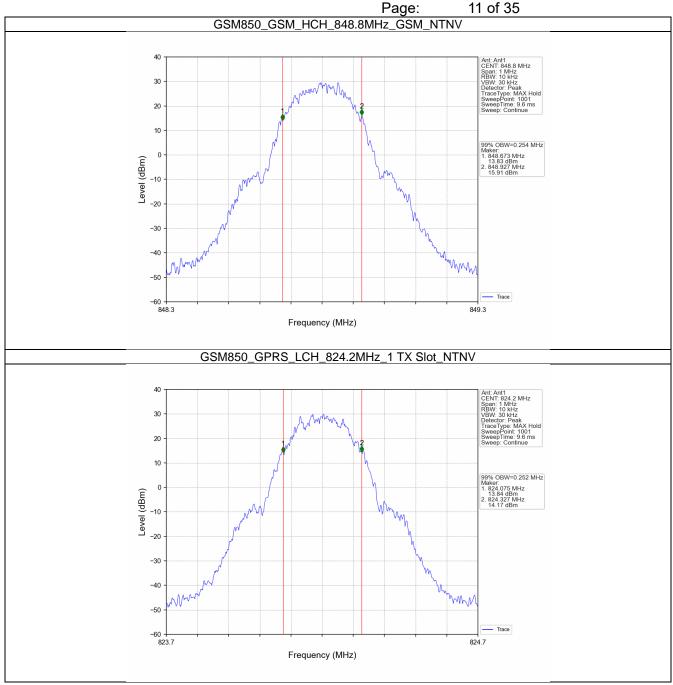
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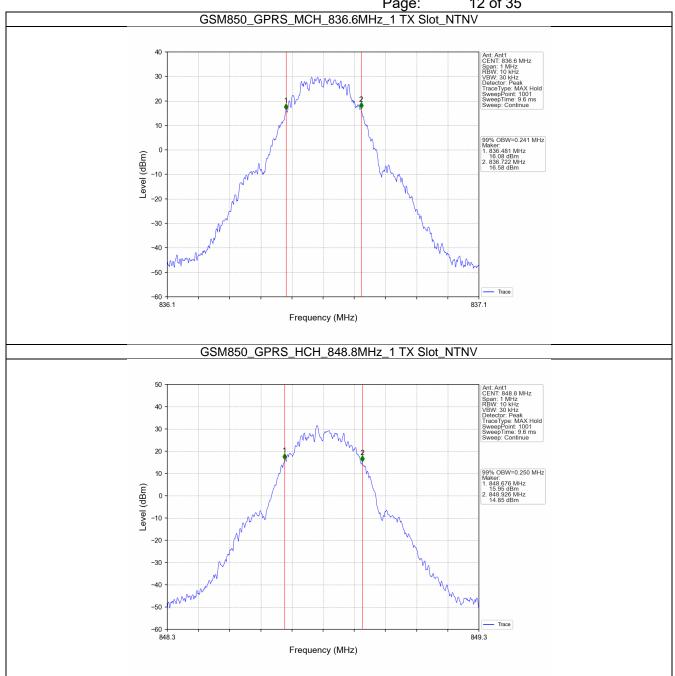
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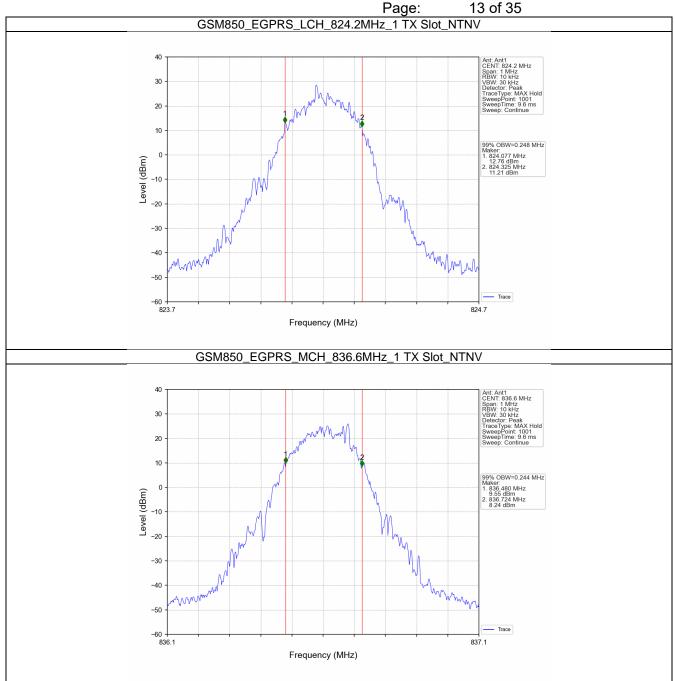
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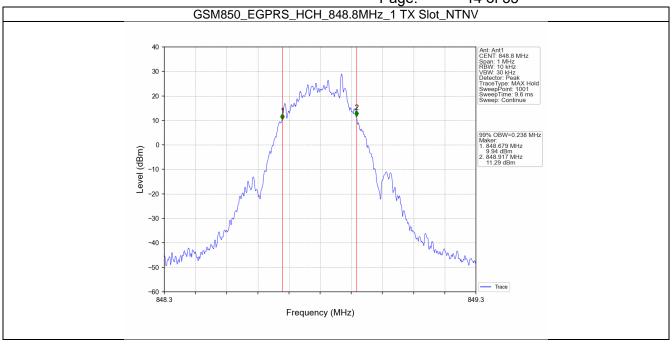
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4.2 GSM850_XDB

4.2.1 Test Result

			Band: GSM8	50		
ENV	Mode		Frequency	26dB Bandv	vidth (MHz)	Verdict
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			824.2	0.311	/	Pass
	GSM	GSM	836.6	0.314	/	Pass
			848.8	0.318	/	Pass
			824.2	0.320	/	Pass
NTNV	GPRS	1 TX Slot	836.6	0.321	/	Pass
			848.8	0.306	/	Pass
			824.2	0.299	/	Pass
	EGPRS	1 TX Slot	836.6	0.314	/	Pass
			848.8	0.291	/	Pass



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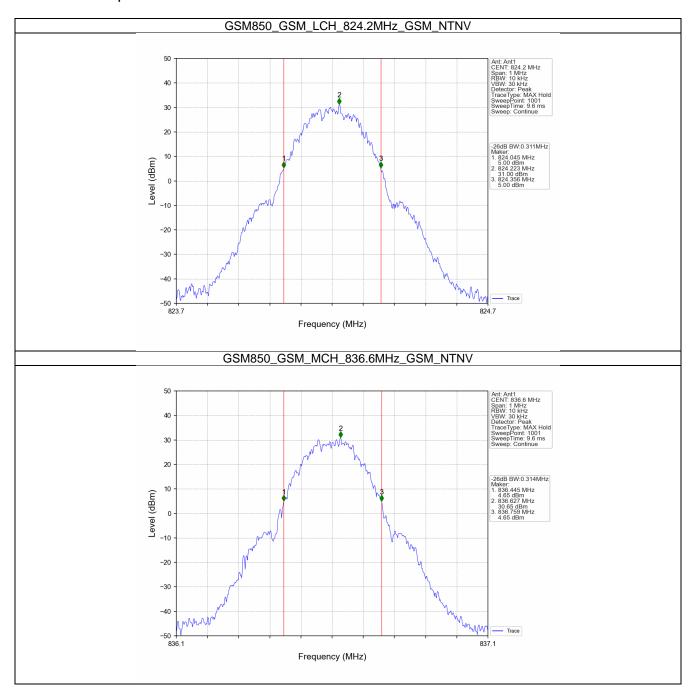


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4.2.2 Test Graph





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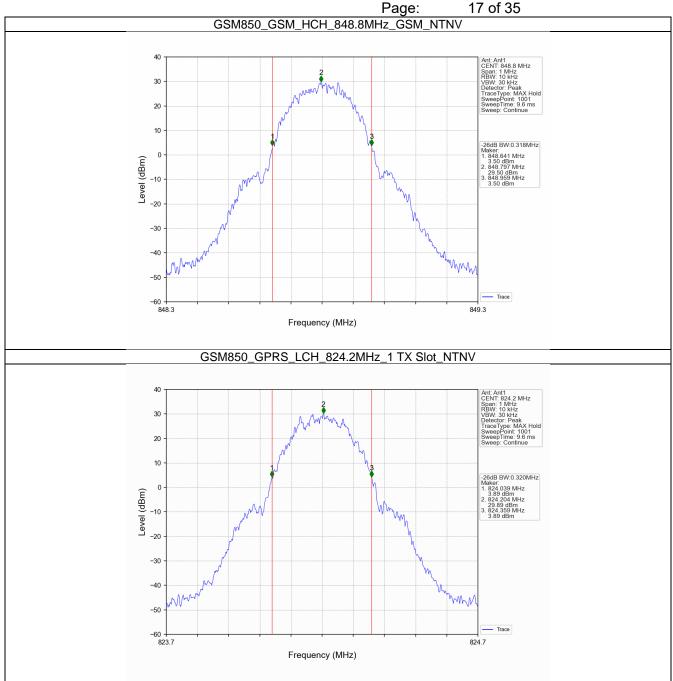
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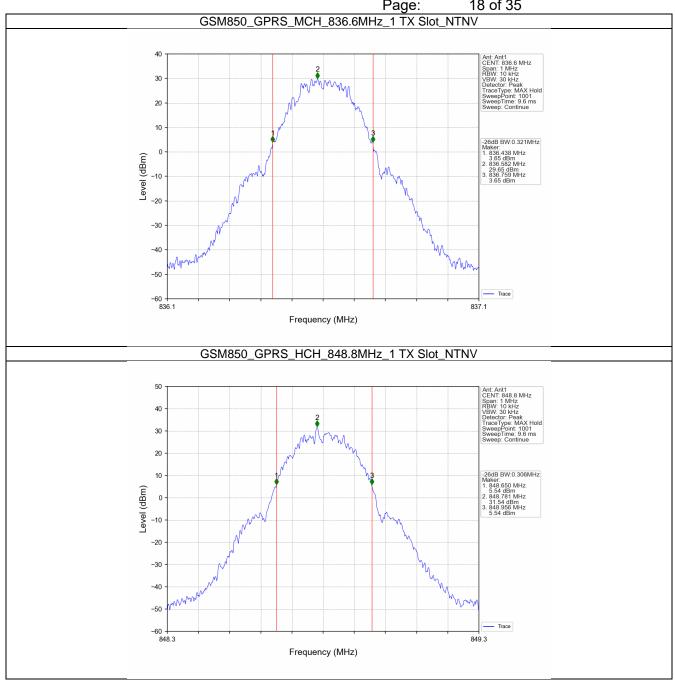
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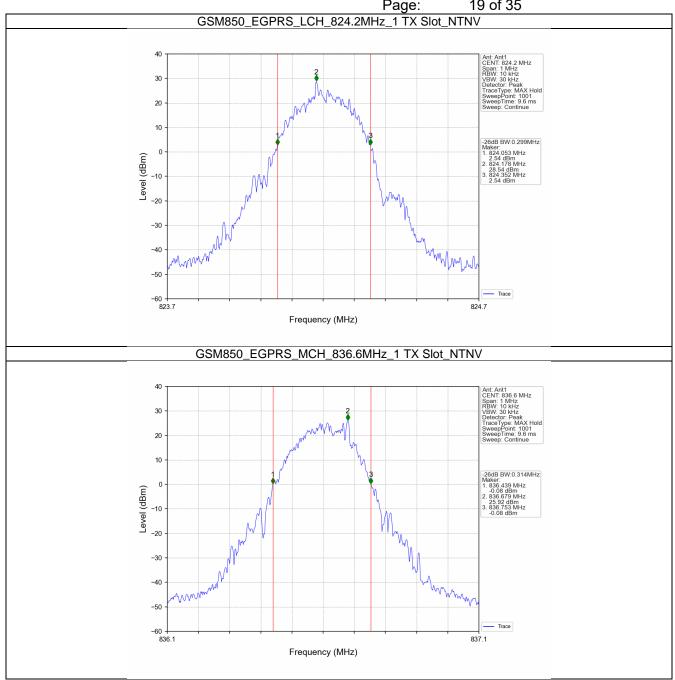
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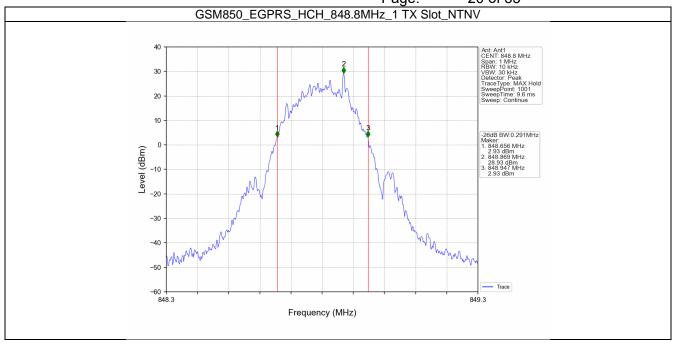
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5. Peak-Average Ratio

5.1 GSM850

5.1.1 Test Result

			Band: GSM8	50		
ENV	Mode		Frequency	Peak-Average Ratio (dB)		\/ordiot
	Network	Subset	(MHz)	Result	Limit	Verdict
NTNV	GSM	GSM	824.2	9.21	<=13	Pass
			836.6	9.43	<=13	Pass
			848.8	9.39	<=13	Pass
	GPRS	4 TX Slots	824.2	3.59	<=13	Pass
			836.6	3.53	<=13	Pass
			848.8	3.59	<=13	Pass
	EGPRS	4 TX Slots	824.2	9.18	<=13	Pass
			836.6	9.58	<=13	Pass
			848.8	9.42	<=13	Pass



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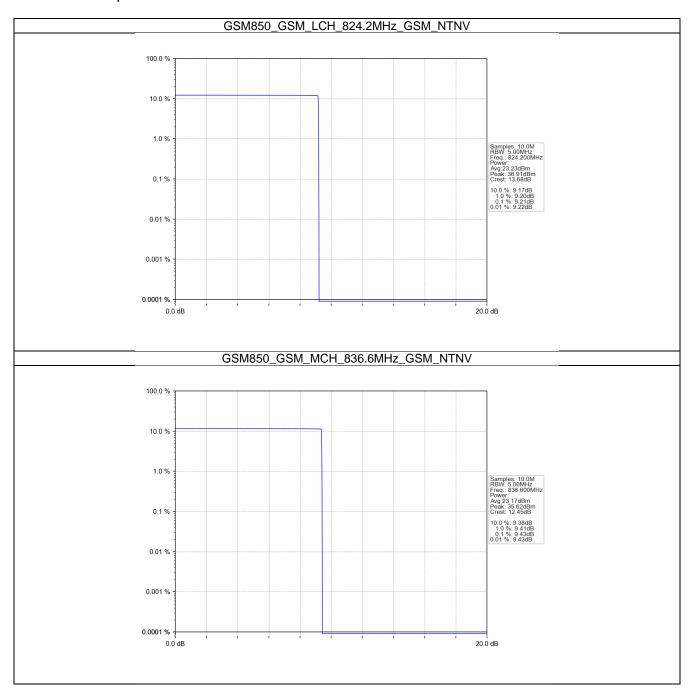


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5.1.2 Test Graph





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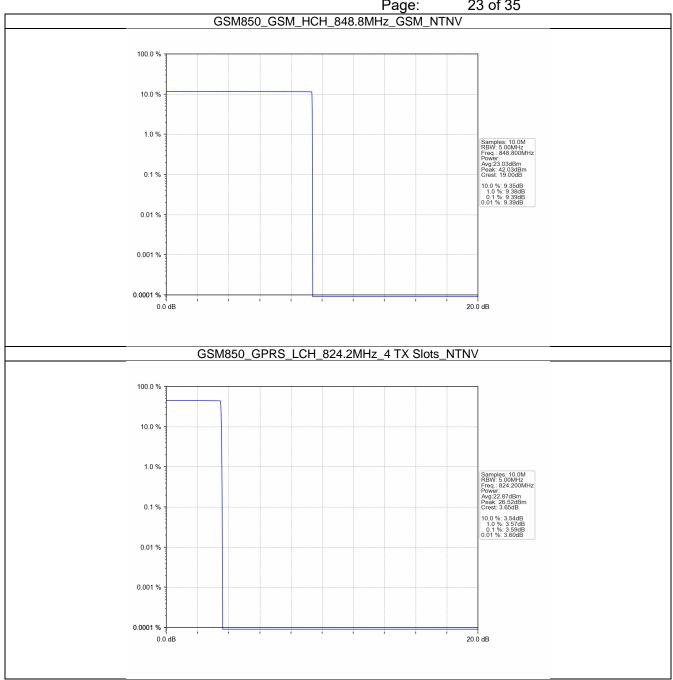
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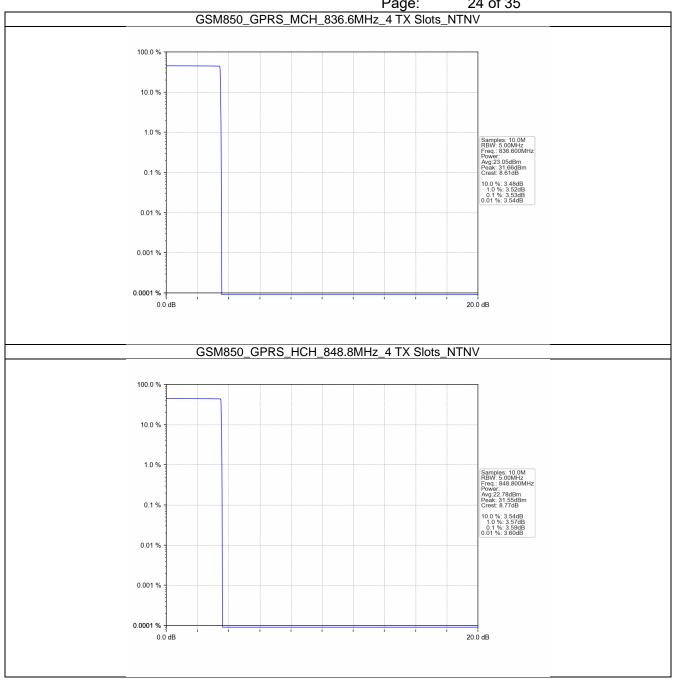
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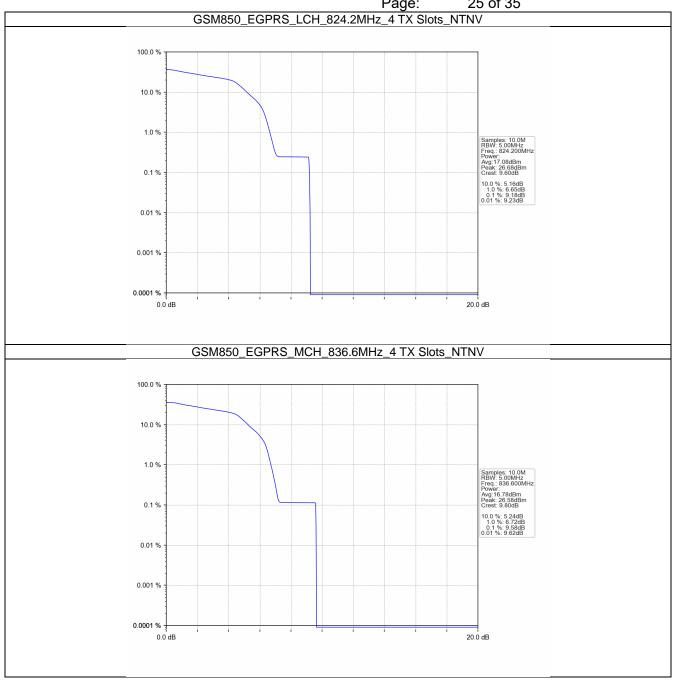
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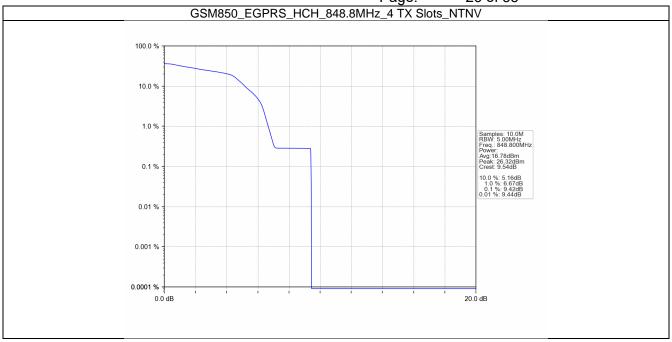
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6. Spurious Emission & Band Edges

6.1 GSM850

6.1.1 Test Result

			Band: GSM85	0		
ENV	Mode		Frequency	Spurious Emission		Verdict
	Network	Subset	(MHz)	Result	Limit	verdict
	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
NTNV			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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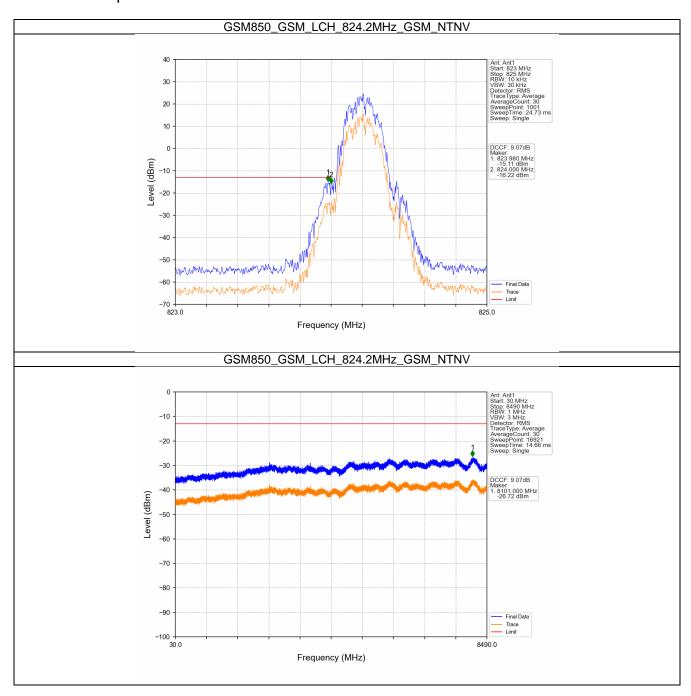


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6.1.2 Test Graph





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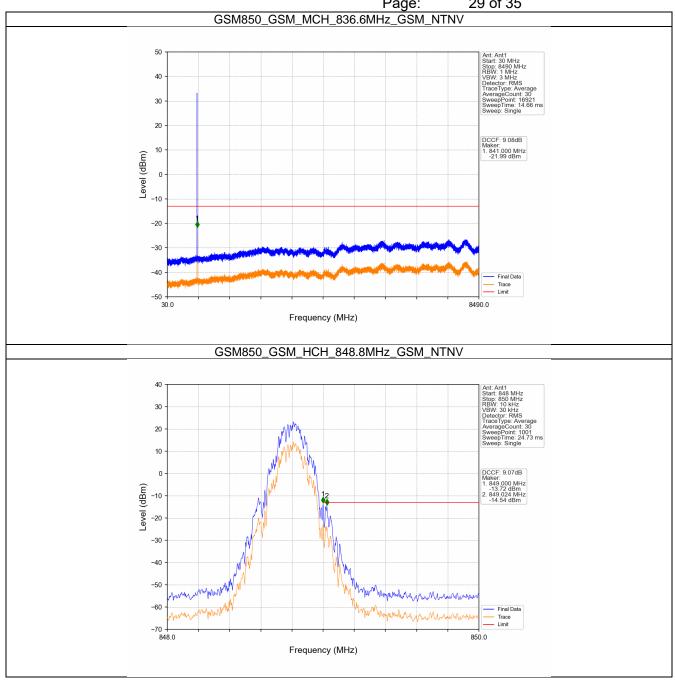
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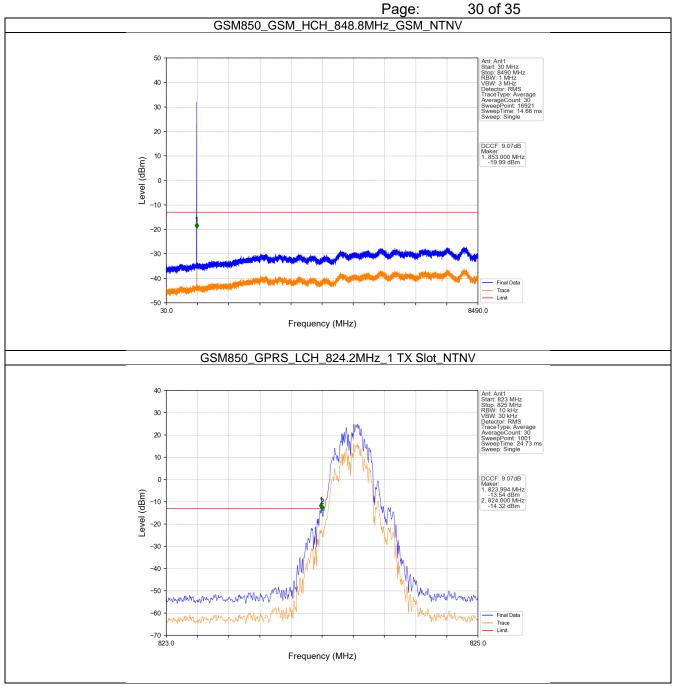
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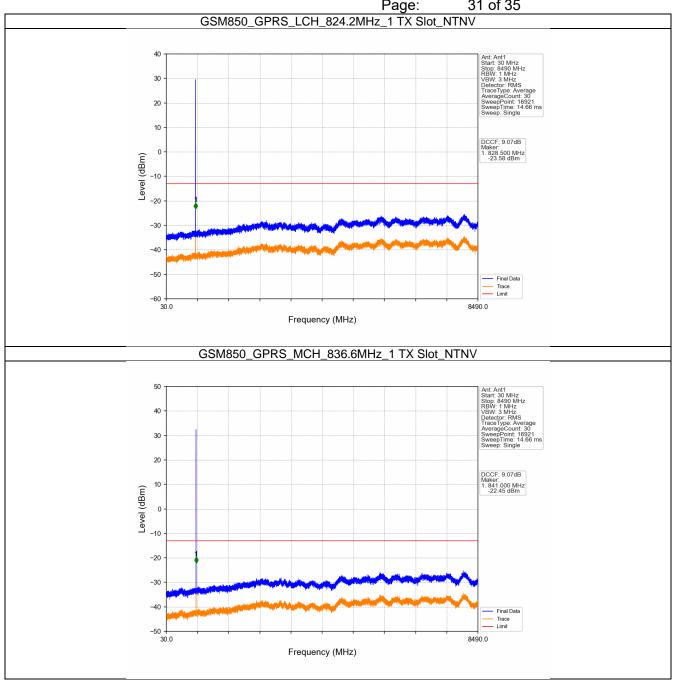
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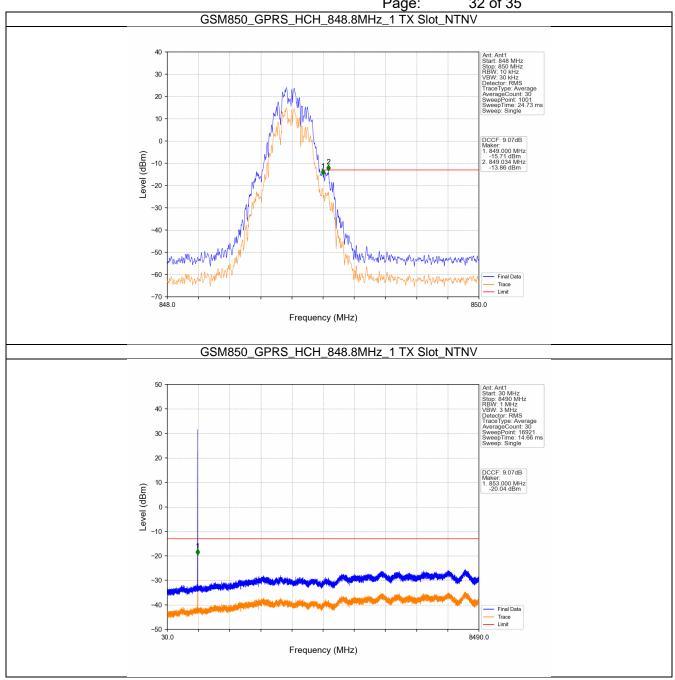
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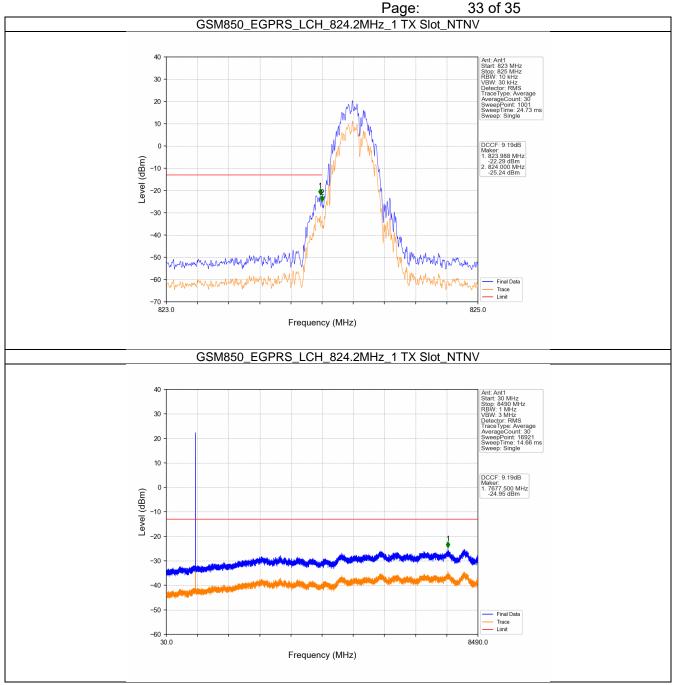
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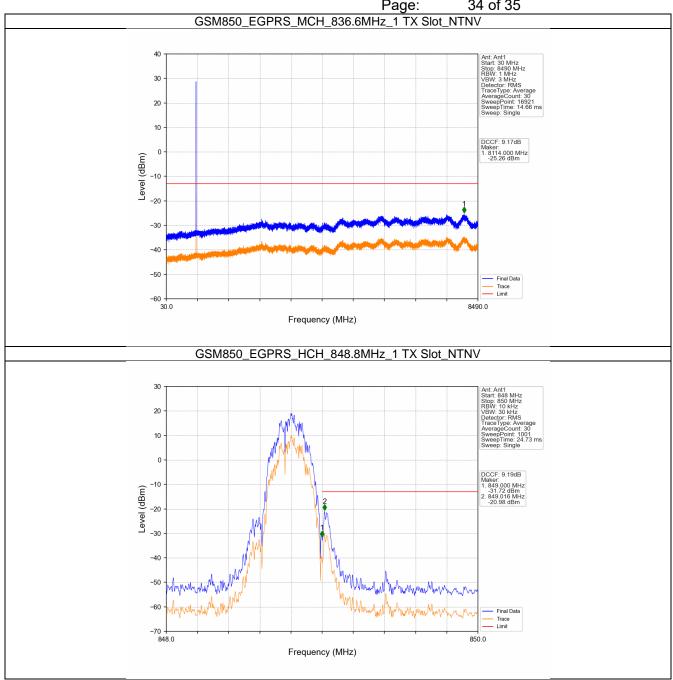
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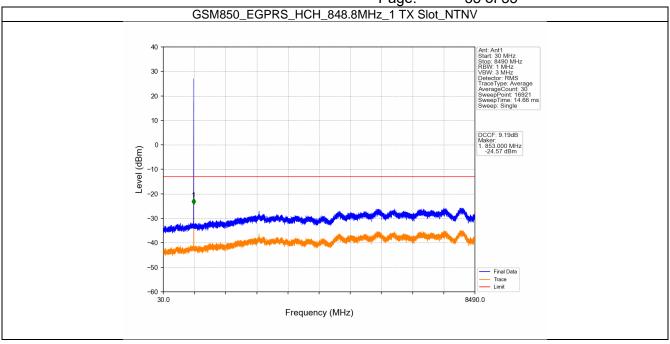
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