

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 GSM850_ERP

Band: GSM850								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	824.2	34.36	0.63	32.84	<=38.45	Pass
			836.6	34.42	0.63	32.90	<=38.45	Pass
			848.8	34.46	0.63	32.94	<=38.45	Pass
	GPRS	1 TX Slot	824.2	34.28	0.63	32.76	<=38.45	Pass
		2 TX Slots	824.2	32.76	0.63	31.24	<=38.45	Pass
		3 TX Slots	824.2	31.30	0.63	29.78	<=38.45	Pass
		4 TX Slots	824.2	27.79	0.63	26.27	<=38.45	Pass
		1 TX Slot	836.6	34.03	0.63	32.51	<=38.45	Pass
		2 TX Slots	836.6	32.88	0.63	31.36	<=38.45	Pass
		3 TX Slots	836.6	31.49	0.63	29.97	<=38.45	Pass
		4 TX Slots	836.6	28.00	0.63	26.48	<=38.45	Pass
		1 TX Slot	848.8	34.01	0.63	32.49	<=38.45	Pass
		2 TX Slots	848.8	32.47	0.63	30.95	<=38.45	Pass
		3 TX Slots	848.8	31.24	0.63	29.72	<=38.45	Pass
		4 TX Slots	848.8	28.15	0.63	26.63	<=38.45	Pass
	EGPRS	1 TX Slot	824.2	26.66	0.63	25.14	<=38.45	Pass
		2 TX Slots	824.2	24.63	0.63	23.11	<=38.45	Pass
		3 TX Slots	824.2	22.59	0.63	21.07	<=38.45	Pass
		4 TX Slots	824.2	20.10	0.63	18.58	<=38.45	Pass
		1 TX Slot	836.6	26.77	0.63	25.25	<=38.45	Pass
		2 TX Slots	836.6	24.71	0.63	23.19	<=38.45	Pass
		3 TX Slots	836.6	22.77	0.63	21.25	<=38.45	Pass
		4 TX Slots	836.6	20.10	0.63	18.58	<=38.45	Pass
		1 TX Slot	848.8	26.44	0.63	24.92	<=38.45	Pass
		2 TX Slots	848.8	24.92	0.63	23.40	<=38.45	Pass
		3 TX Slots	848.8	22.73	0.63	21.21	<=38.45	Pass
		4 TX Slots	848.8	20.06	0.63	18.54	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 GSM850

Band: GSM850							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	

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GSM	824.2	20	LV	12.527	0.0152	-2.5 to 2.5	Pass
			NV	9.557	0.0116	-2.5 to 2.5	Pass
			HV	16.111	0.0195	-2.5 to 2.5	Pass
		-30	NV	13.657	0.0166	-2.5 to 2.5	Pass
		-20	NV	13.495	0.0164	-2.5 to 2.5	Pass
		-10	NV	14.529	0.0176	-2.5 to 2.5	Pass
		0	NV	18.306	0.0222	-2.5 to 2.5	Pass
		10	NV	14.044	0.0170	-2.5 to 2.5	Pass
		30	NV	12.721	0.0154	-2.5 to 2.5	Pass
		40	NV	14.496	0.0176	-2.5 to 2.5	Pass
		50	NV	11.655	0.0141	-2.5 to 2.5	Pass
	836.6	20	LV	14.012	0.0167	-2.5 to 2.5	Pass
			NV	19.242	0.0230	-2.5 to 2.5	Pass
			HV	15.142	0.0181	-2.5 to 2.5	Pass
		-30	NV	16.401	0.0196	-2.5 to 2.5	Pass
		-20	NV	19.791	0.0237	-2.5 to 2.5	Pass
		-10	NV	19.694	0.0235	-2.5 to 2.5	Pass
		0	NV	15.368	0.0184	-2.5 to 2.5	Pass
		10	NV	15.336	0.0183	-2.5 to 2.5	Pass
		30	NV	18.371	0.0220	-2.5 to 2.5	Pass
		40	NV	13.851	0.0166	-2.5 to 2.5	Pass
		50	NV	13.302	0.0159	-2.5 to 2.5	Pass
	848.8	20	LV	17.886	0.0211	-2.5 to 2.5	Pass
			NV	14.238	0.0168	-2.5 to 2.5	Pass
			HV	14.173	0.0167	-2.5 to 2.5	Pass
		-30	NV	15.303	0.0180	-2.5 to 2.5	Pass
		-20	NV	13.560	0.0160	-2.5 to 2.5	Pass
		-10	NV	18.080	0.0213	-2.5 to 2.5	Pass
		0	NV	13.431	0.0158	-2.5 to 2.5	Pass
		10	NV	12.914	0.0152	-2.5 to 2.5	Pass
		30	NV	11.687	0.0138	-2.5 to 2.5	Pass
		40	NV	15.207	0.0179	-2.5 to 2.5	Pass
		50	NV	13.495	0.0159	-2.5 to 2.5	Pass
GPRS	824.2	20	LV	28.864	0.0350	-2.5 to 2.5	Pass
			NV	29.186	0.0354	-2.5 to 2.5	Pass
			HV	28.896	0.0351	-2.5 to 2.5	Pass
		-30	NV	29.025	0.0352	-2.5 to 2.5	Pass
		-20	NV	28.993	0.0352	-2.5 to 2.5	Pass
		-10	NV	27.992	0.0340	-2.5 to 2.5	Pass
		0	NV	28.928	0.0351	-2.5 to 2.5	Pass
		10	NV	26.797	0.0325	-2.5 to 2.5	Pass
		30	NV	27.637	0.0335	-2.5 to 2.5	Pass
		40	NV	29.251	0.0355	-2.5 to 2.5	Pass
		50	NV	26.410	0.0320	-2.5 to 2.5	Pass
	836.6	20	LV	27.604	0.0330	-2.5 to 2.5	Pass
			NV	29.122	0.0348	-2.5 to 2.5	Pass
			HV	27.411	0.0328	-2.5 to 2.5	Pass
		-30	NV	26.152	0.0313	-2.5 to 2.5	Pass
		-20	NV	27.895	0.0333	-2.5 to 2.5	Pass
		-10	NV	28.024	0.0335	-2.5 to 2.5	Pass
		0	NV	25.506	0.0305	-2.5 to 2.5	Pass
		10	NV	27.282	0.0326	-2.5 to 2.5	Pass

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		30	NV	29.961	0.0358	-2.5 to 2.5	Pass
		40	NV	27.766	0.0332	-2.5 to 2.5	Pass
		50	NV	26.797	0.0320	-2.5 to 2.5	Pass
	848.8	20	LV	26.248	0.0309	-2.5 to 2.5	Pass
			NV	27.508	0.0324	-2.5 to 2.5	Pass
			HV	24.473	0.0288	-2.5 to 2.5	Pass
		-30	NV	25.183	0.0297	-2.5 to 2.5	Pass
		-20	NV	26.184	0.0308	-2.5 to 2.5	Pass
		-10	NV	28.767	0.0339	-2.5 to 2.5	Pass
		0	NV	26.119	0.0308	-2.5 to 2.5	Pass
		10	NV	26.087	0.0307	-2.5 to 2.5	Pass
		30	NV	25.796	0.0304	-2.5 to 2.5	Pass
		40	NV	26.539	0.0313	-2.5 to 2.5	Pass
		50	NV	25.151	0.0296	-2.5 to 2.5	Pass
EGPRS	824.2	20	LV	33.836	0.0411	-2.5 to 2.5	Pass
			NV	34.901	0.0423	-2.5 to 2.5	Pass
			HV	33.287	0.0404	-2.5 to 2.5	Pass
		-30	NV	32.415	0.0393	-2.5 to 2.5	Pass
		-20	NV	33.836	0.0411	-2.5 to 2.5	Pass
		-10	NV	32.350	0.0393	-2.5 to 2.5	Pass
		0	NV	32.738	0.0397	-2.5 to 2.5	Pass
		10	NV	33.351	0.0405	-2.5 to 2.5	Pass
		30	NV	31.414	0.0381	-2.5 to 2.5	Pass
		40	NV	32.641	0.0396	-2.5 to 2.5	Pass
		50	NV	31.737	0.0385	-2.5 to 2.5	Pass
	836.6	20	LV	33.900	0.0405	-2.5 to 2.5	Pass
			NV	31.608	0.0378	-2.5 to 2.5	Pass
			HV	30.704	0.0367	-2.5 to 2.5	Pass
		-30	NV	32.932	0.0394	-2.5 to 2.5	Pass
		-20	NV	31.963	0.0382	-2.5 to 2.5	Pass
		-10	NV	33.222	0.0397	-2.5 to 2.5	Pass
		0	NV	31.898	0.0381	-2.5 to 2.5	Pass
		10	NV	30.026	0.0359	-2.5 to 2.5	Pass
		30	NV	34.320	0.0410	-2.5 to 2.5	Pass
		40	NV	30.736	0.0367	-2.5 to 2.5	Pass
		50	NV	33.771	0.0404	-2.5 to 2.5	Pass
	848.8	20	LV	31.608	0.0372	-2.5 to 2.5	Pass
			NV	27.927	0.0329	-2.5 to 2.5	Pass
			HV	32.189	0.0379	-2.5 to 2.5	Pass
		-30	NV	30.510	0.0359	-2.5 to 2.5	Pass
		-20	NV	31.802	0.0375	-2.5 to 2.5	Pass
		-10	NV	33.674	0.0397	-2.5 to 2.5	Pass
		0	NV	30.510	0.0359	-2.5 to 2.5	Pass
		10	NV	29.122	0.0343	-2.5 to 2.5	Pass
		30	NV	30.898	0.0364	-2.5 to 2.5	Pass
		40	NV	27.185	0.0320	-2.5 to 2.5	Pass
		50	NV	30.898	0.0364	-2.5 to 2.5	Pass

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3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 GSM850_OBW

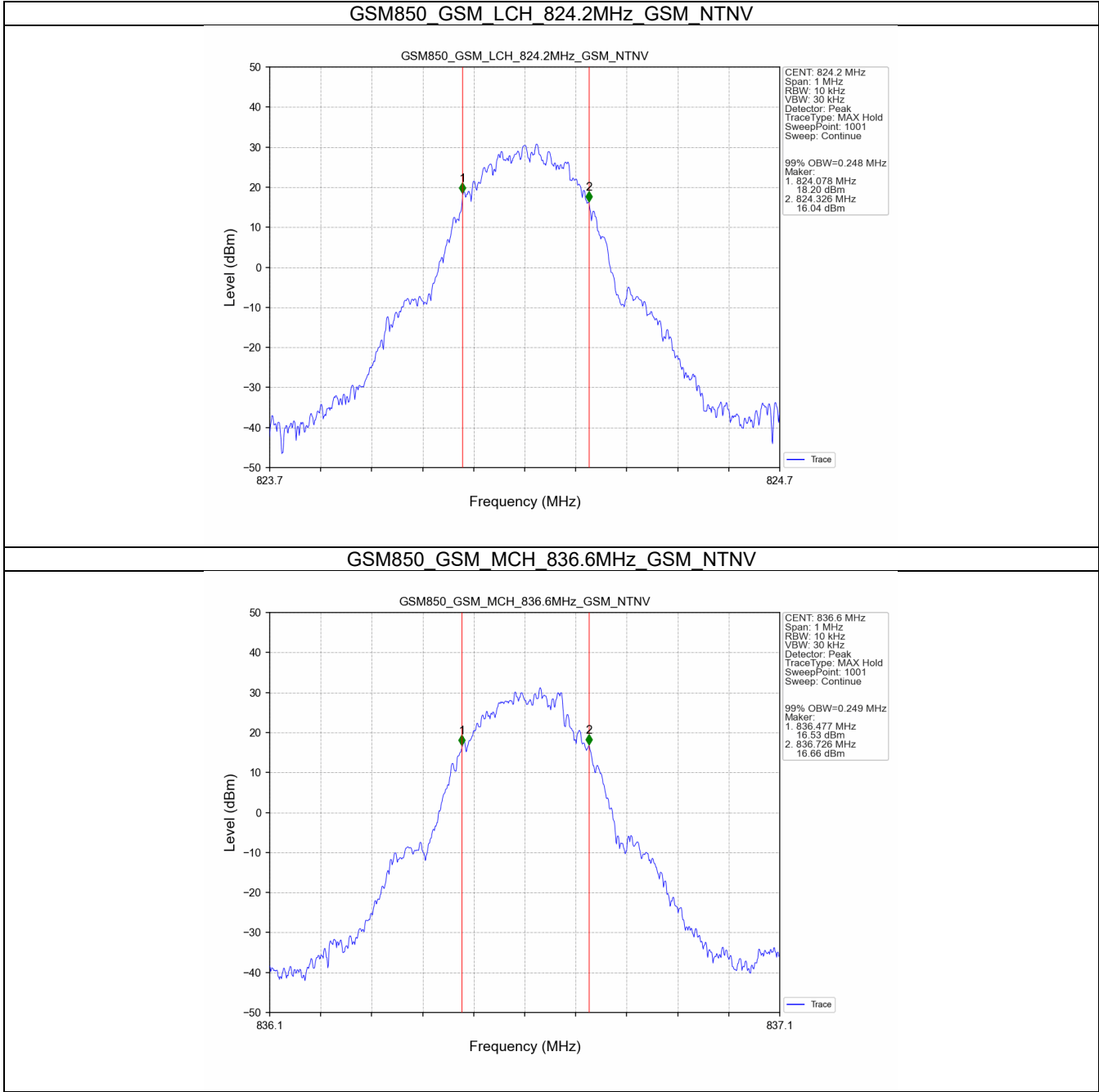
Band: GSM850						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.248	/	Pass
			836.6	0.249	/	Pass
			848.8	0.245	/	Pass
	GPRS	1 TX Slot	824.2	0.245	/	Pass
			836.6	0.243	/	Pass
			848.8	0.250	/	Pass
	EGPRS	1 TX Slot	824.2	0.234	/	Pass
			836.6	0.250	/	Pass
			848.8	0.248	/	Pass

3.1.2 GSM850_XDB

Band: GSM850						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	0.317	/	Pass
			836.6	0.314	/	Pass
			848.8	0.312	/	Pass
	GPRS	1 TX Slot	824.2	0.320	/	Pass
			836.6	0.318	/	Pass
			848.8	0.311	/	Pass
	EGPRS	1 TX Slot	824.2	0.300	/	Pass
			836.6	0.305	/	Pass
			848.8	0.323	/	Pass

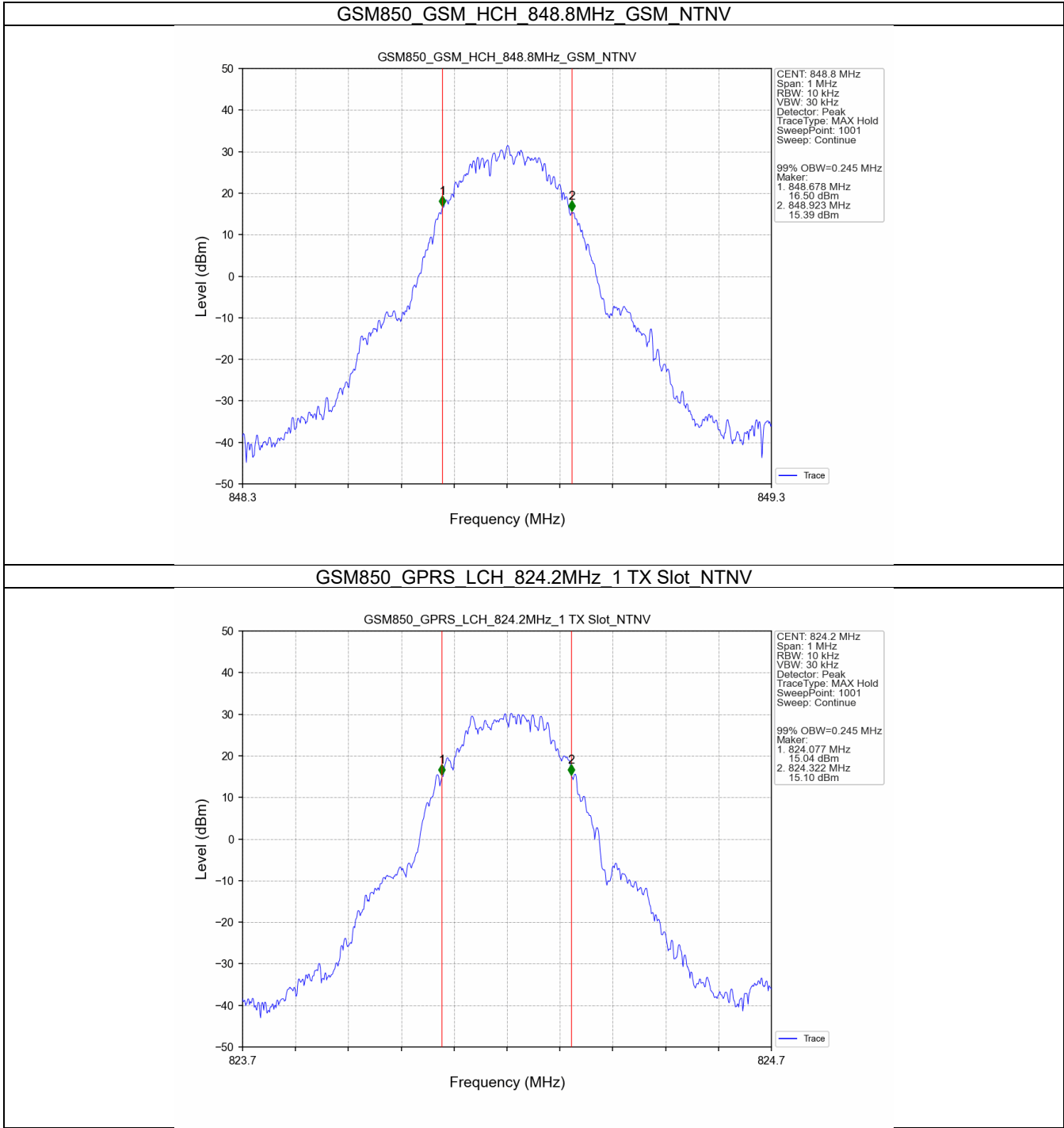
3.2 Test Graph

3.2.1 GSM850_OBW



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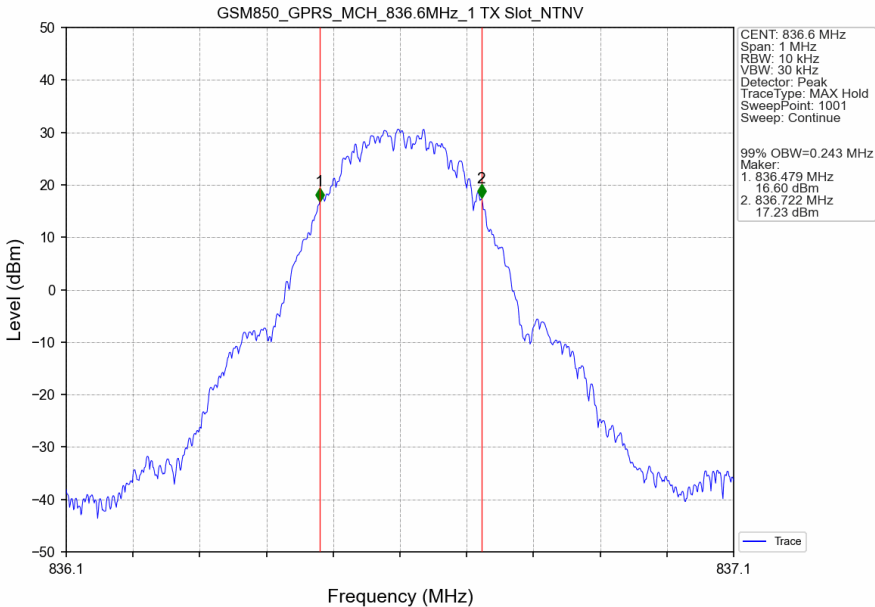
Report No.: FYCR2605000011AT



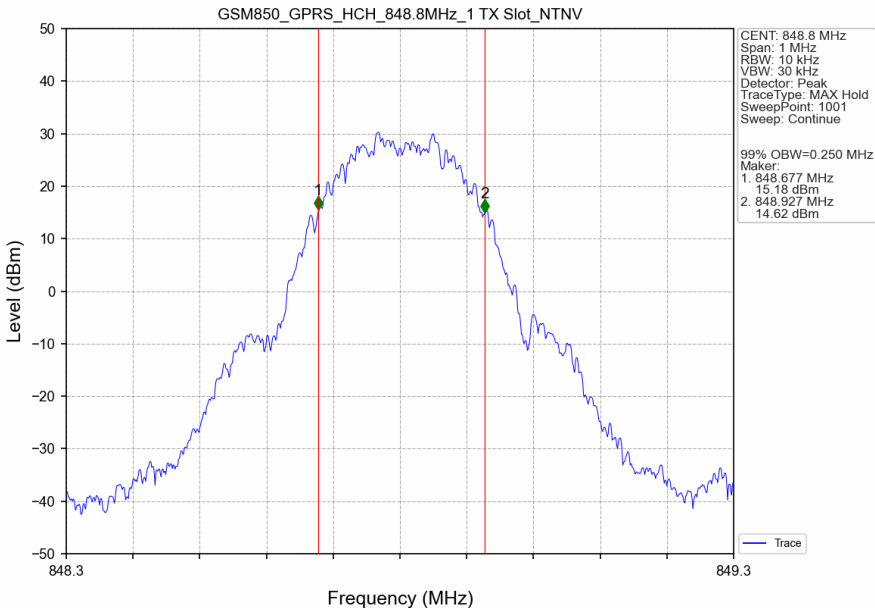
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GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



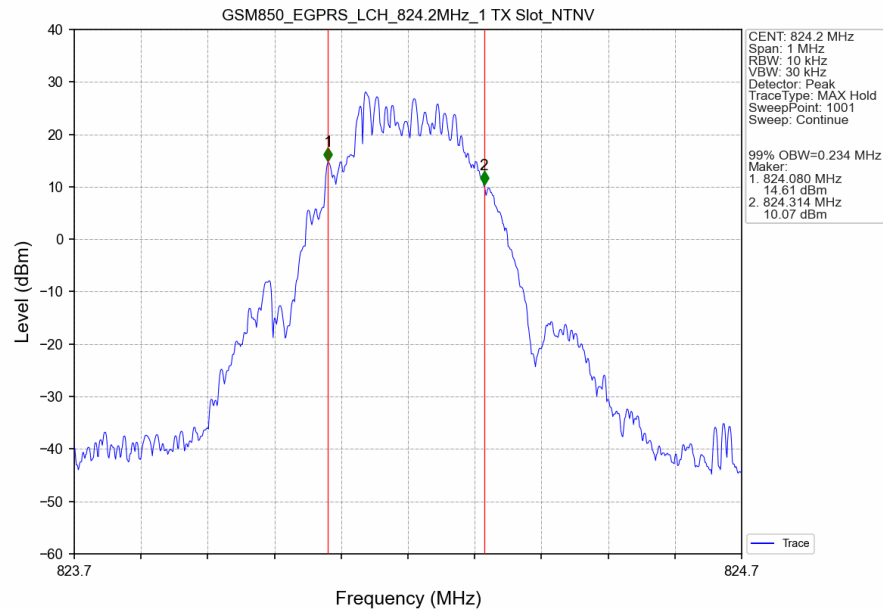
GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



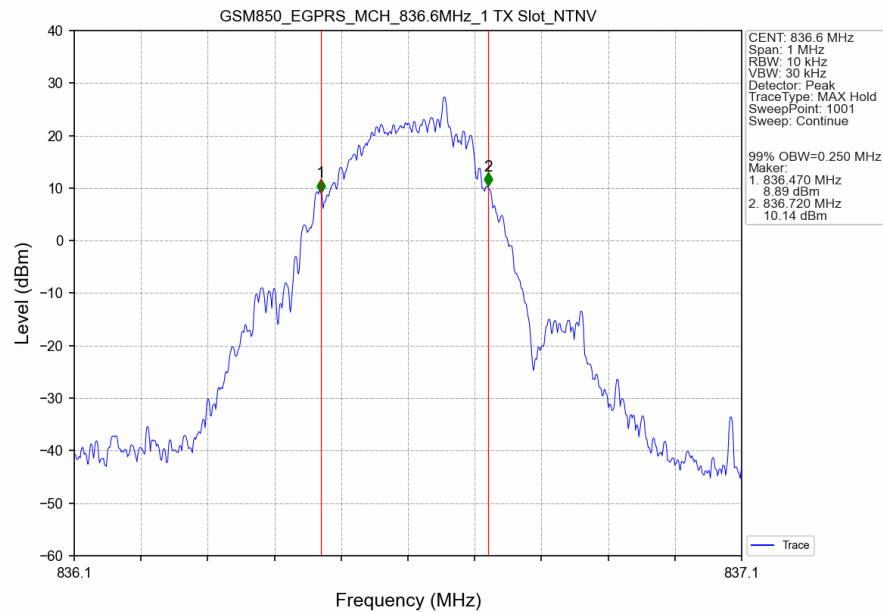
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV

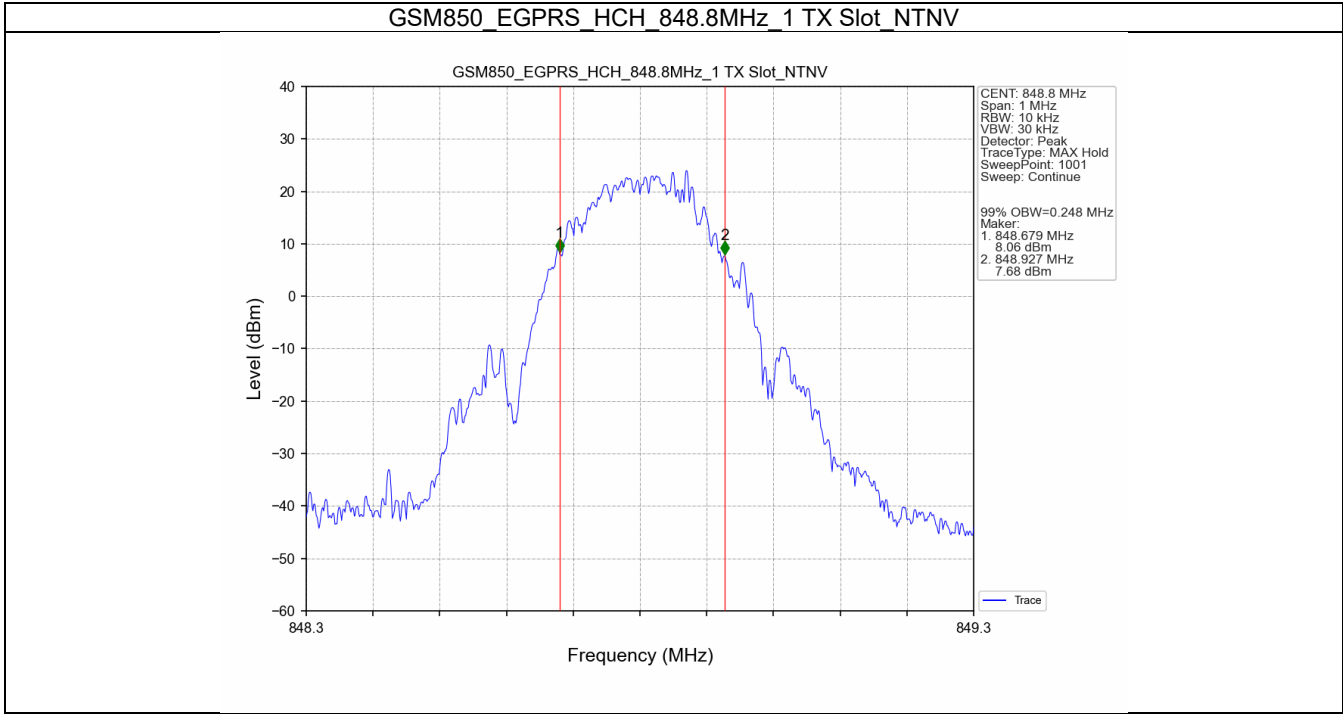


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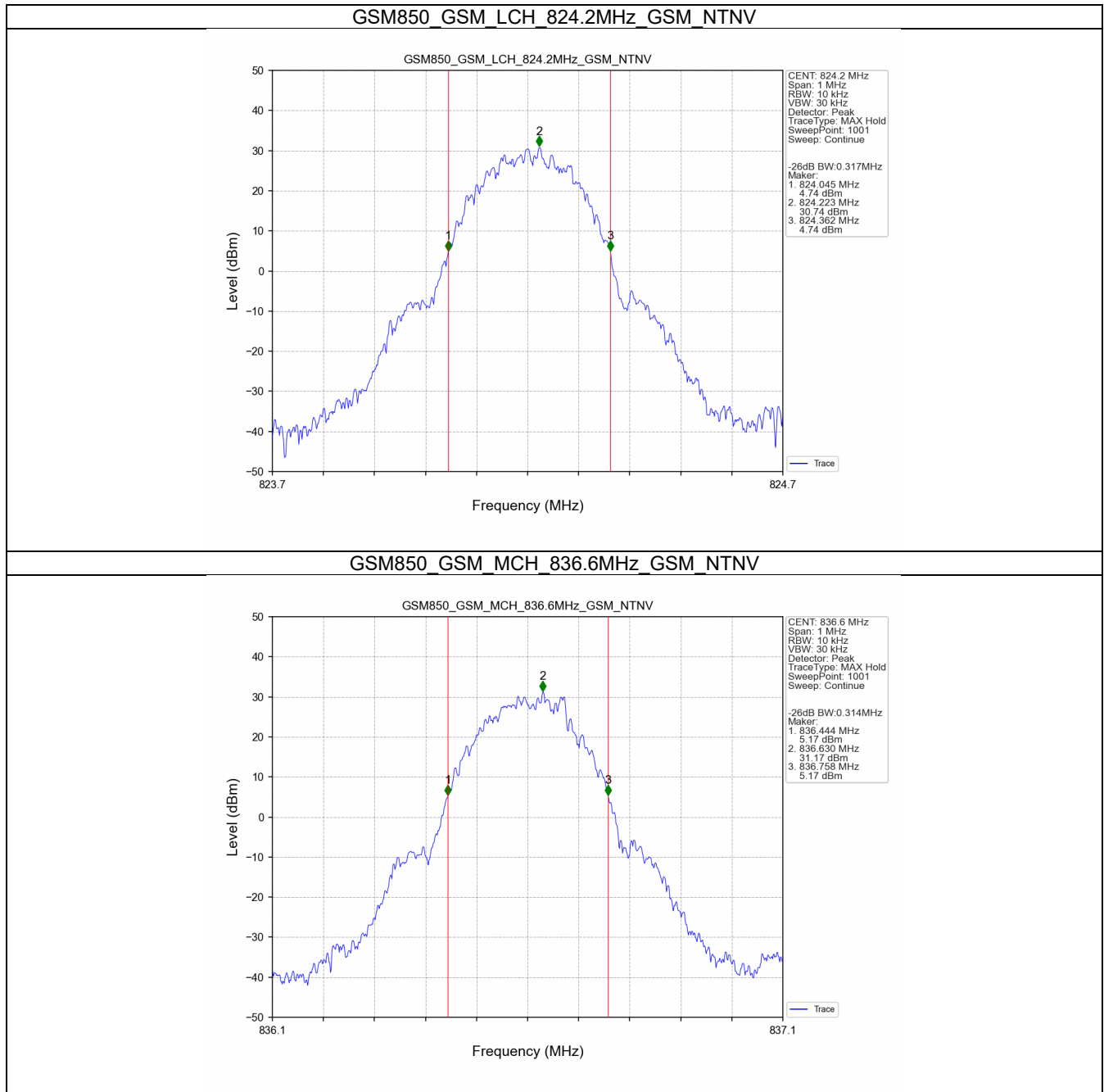


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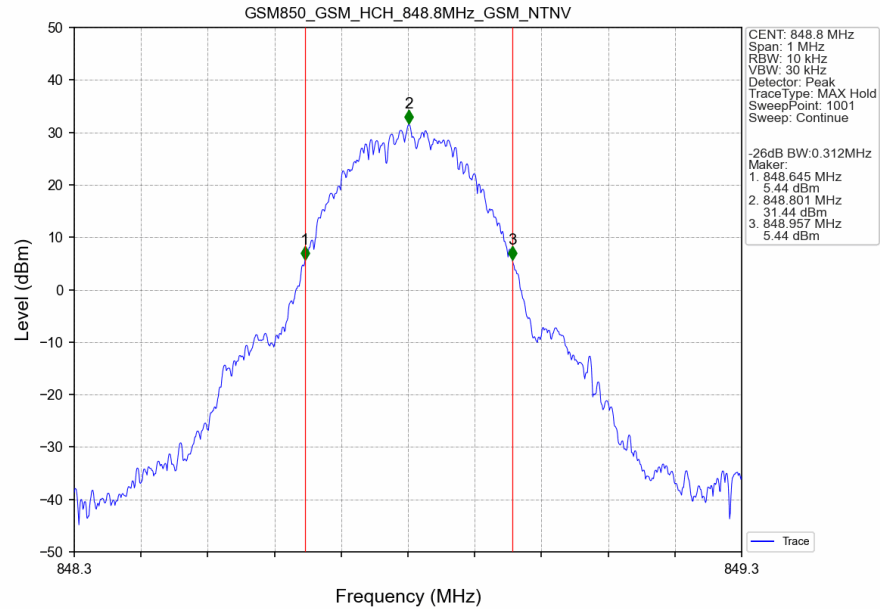
3.2.2 GSM850_XDB



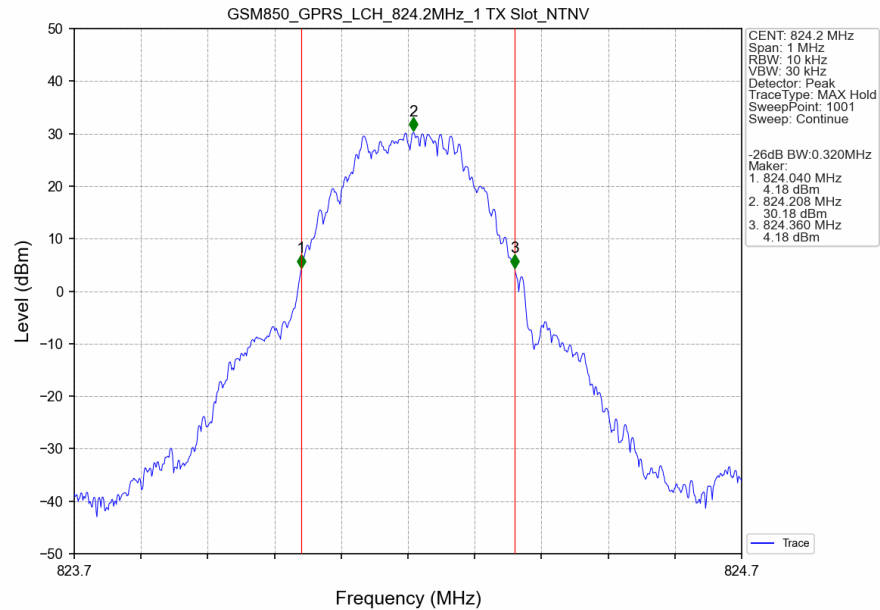
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GSM850_GSM_HCH_848.8MHz_GSM_NTNV



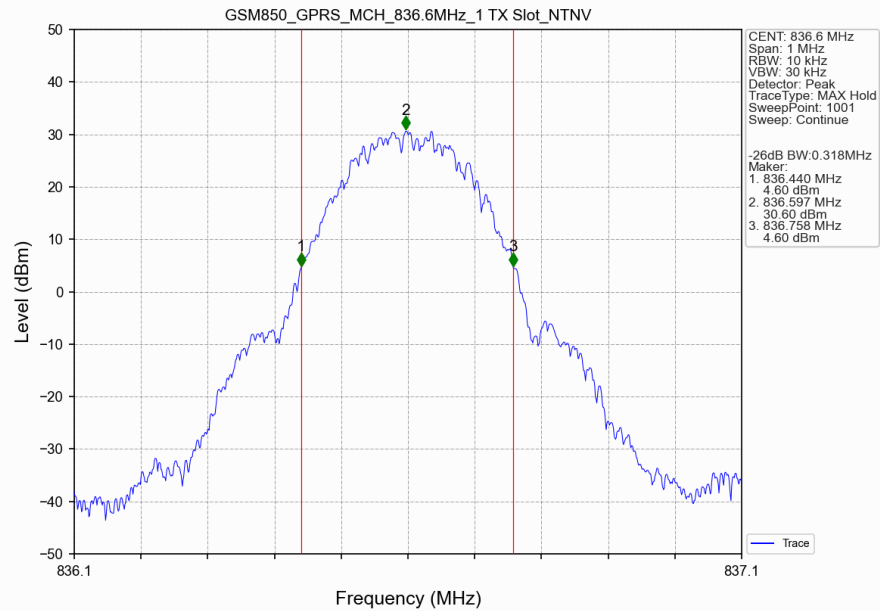
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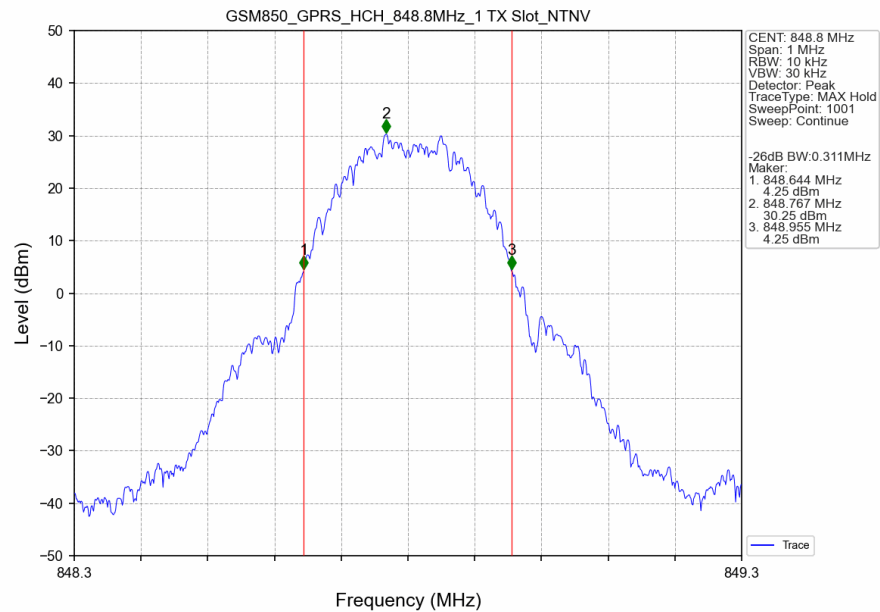
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Report No.: FYCR2605000011AT

GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



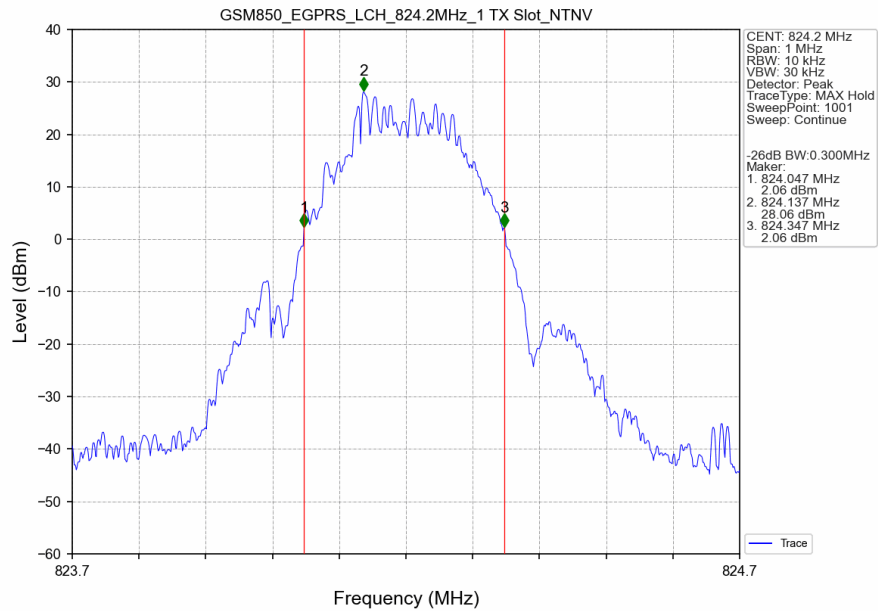
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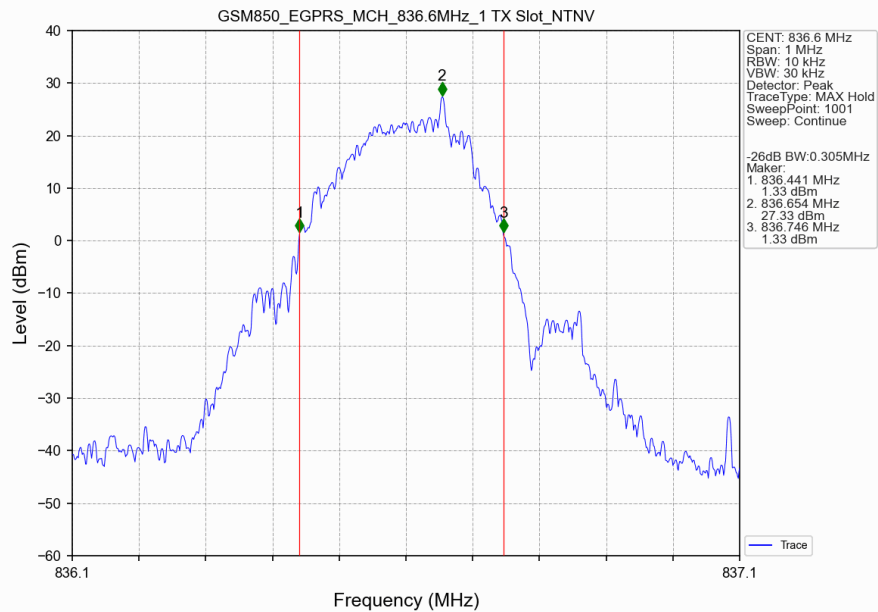
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTV

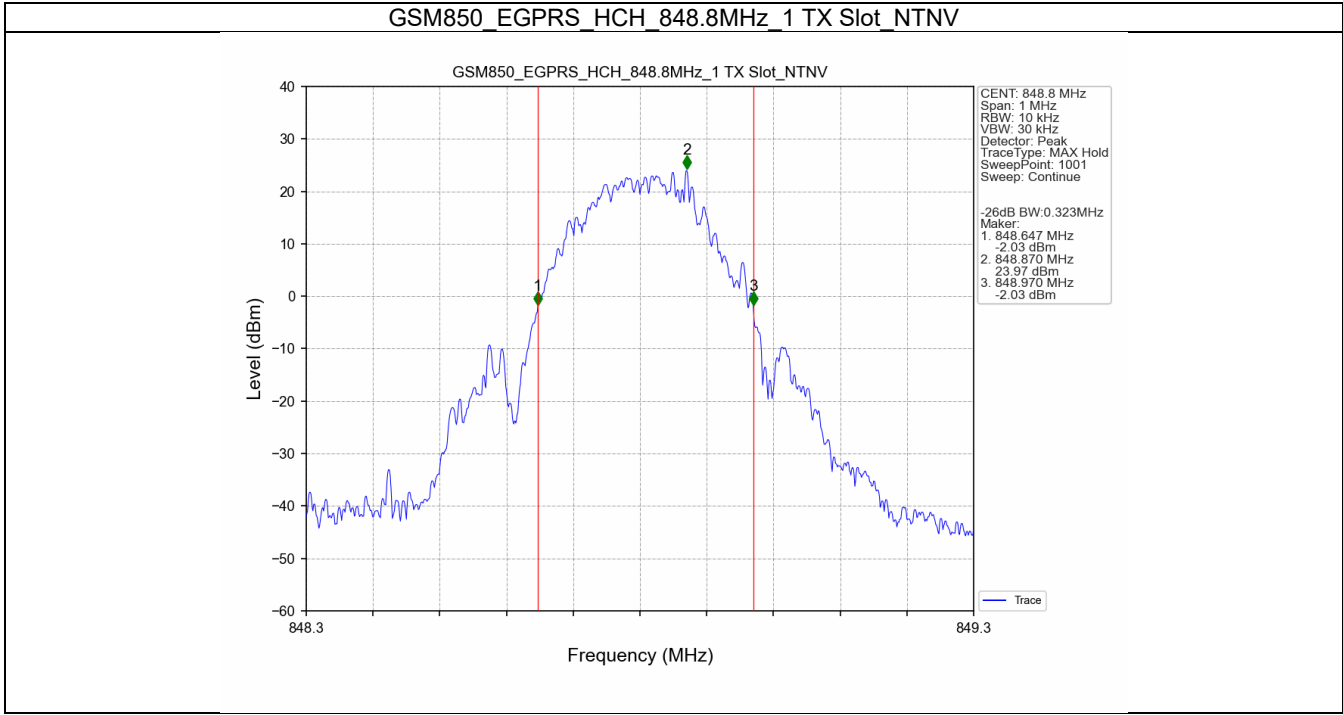


GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTV



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4. Peak-Average Ratio

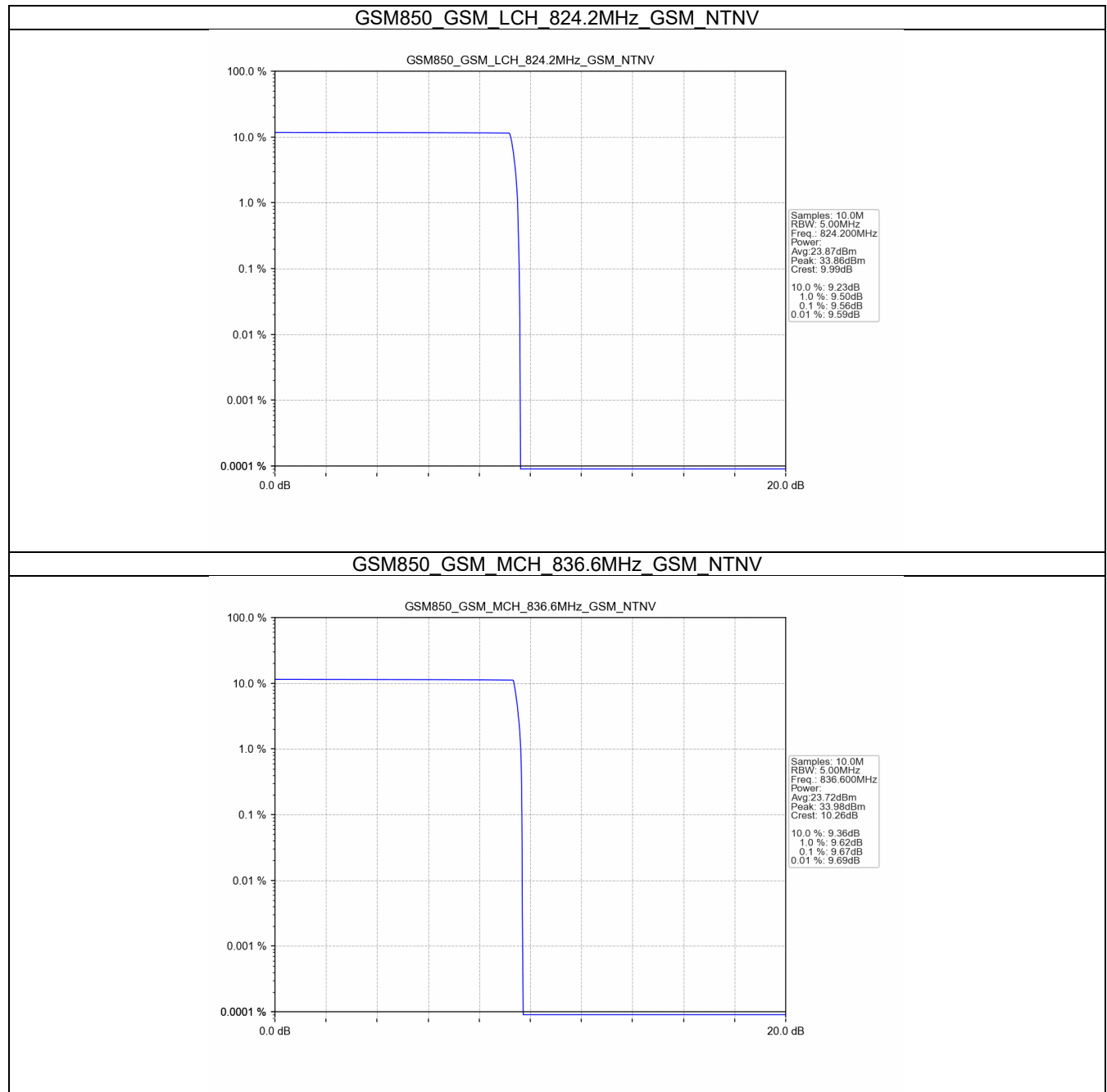
4.1 Test Result

4.1.1 GSM850

Band: GSM850						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	824.2	9.56	<=13	Pass
			836.6	9.67	<=13	Pass
			848.8	9.65	<=13	Pass
	GPRS	4 TX Slots	824.2	4.36	<=13	Pass
			836.6	4.33	<=13	Pass
			848.8	4.19	<=13	Pass
	EGPRS	4 TX Slots	824.2	11.64	<=13	Pass
			836.6	12.17	<=13	Pass
			848.8	11.95	<=13	Pass

4.2 Test Graph

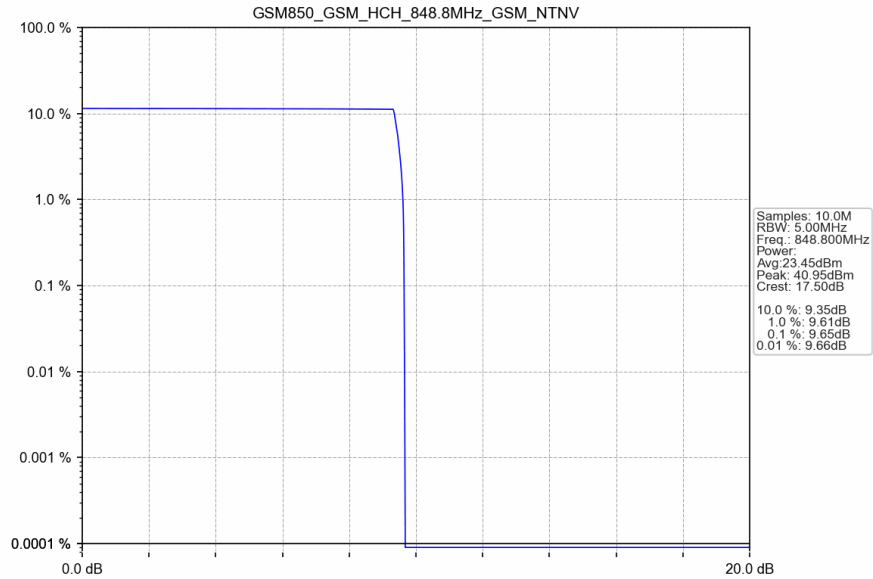
4.2.1 GSM850



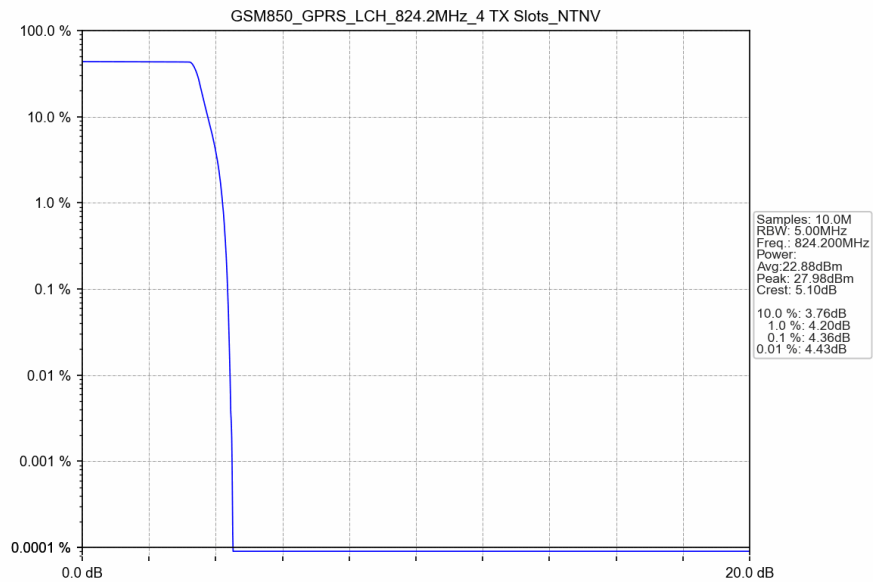
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Report No.: FYCR2605000011AT

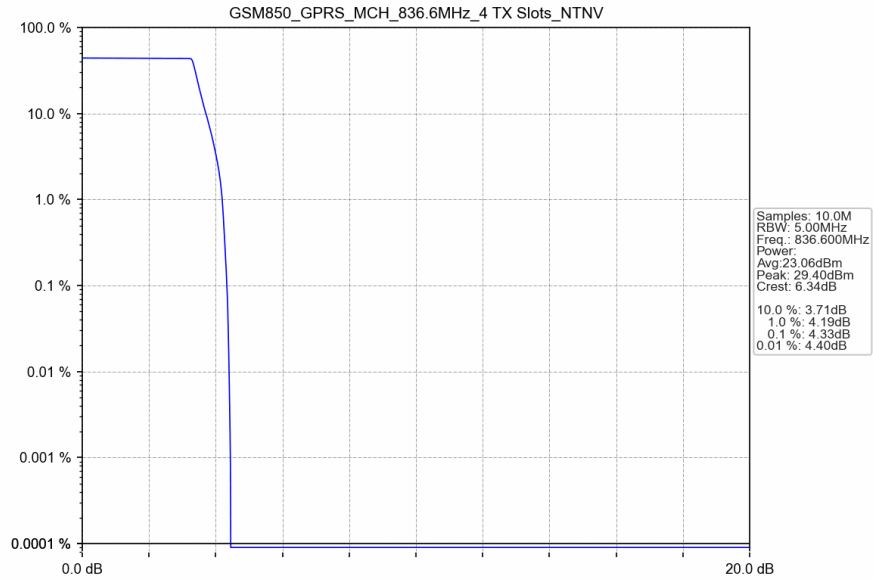
GSM850_GSM_HCH_848.8MHz_GSM_NTNV



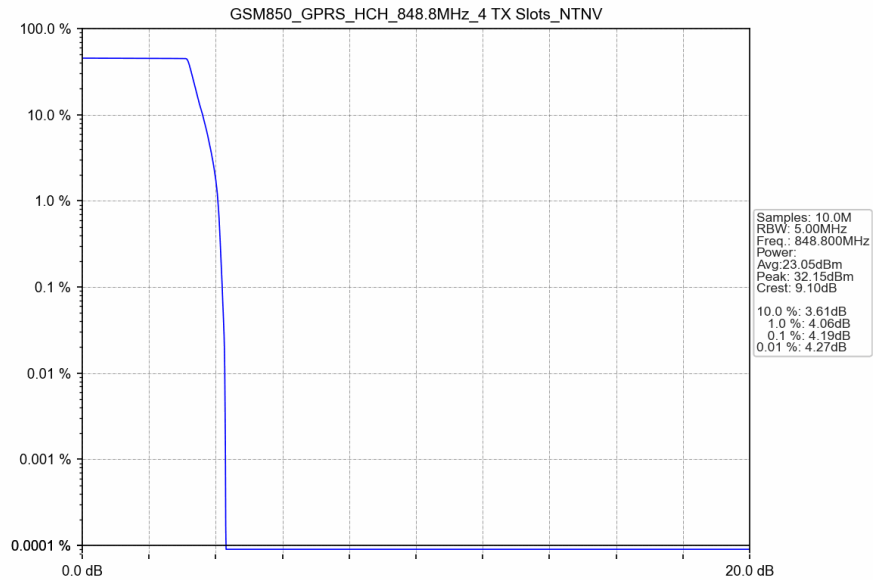
GSM850_GPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_GPRS_MCH_836.6MHz_4 TX Slots_NTNV



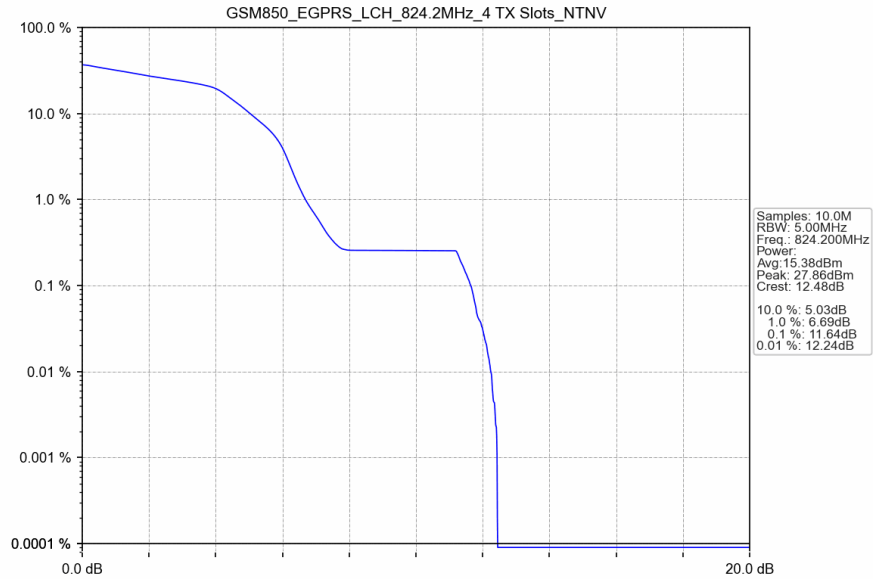
GSM850_GPRS_HCH_848.8MHz_4 TX Slots_NTNV



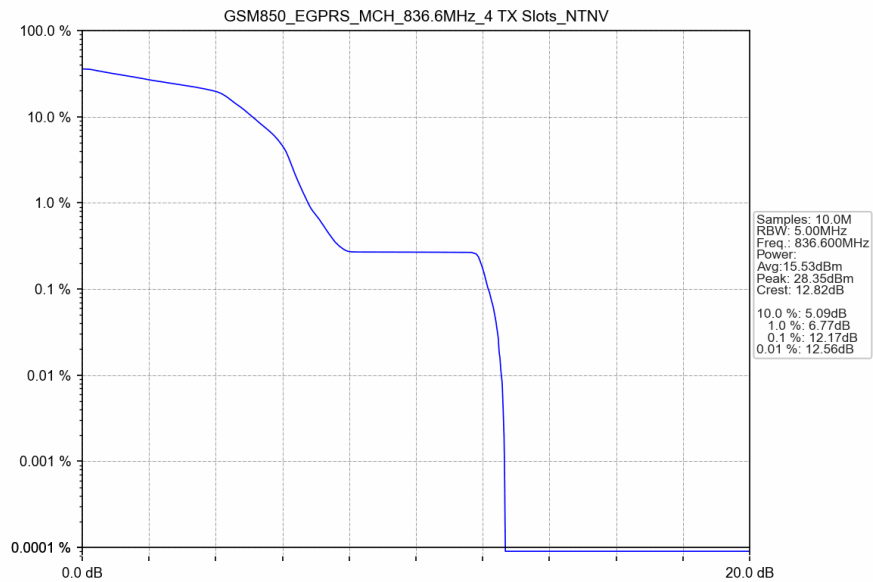
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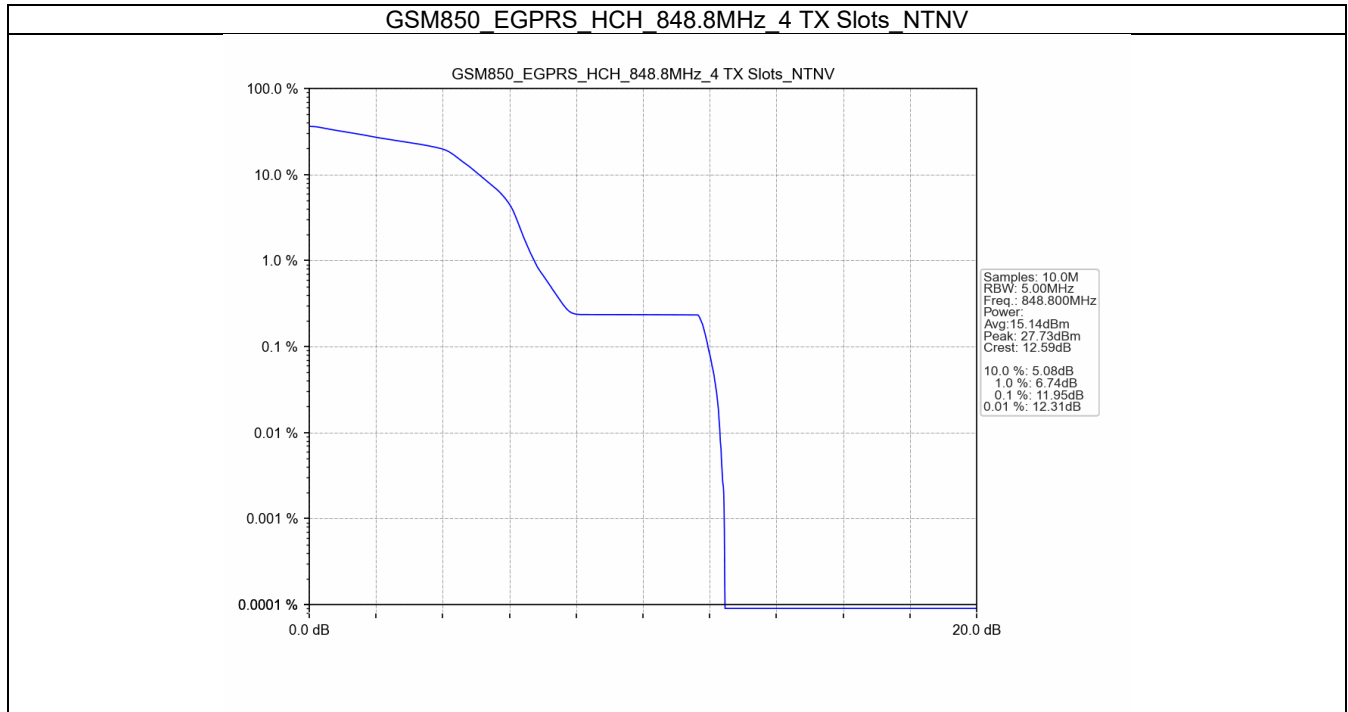
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GSM850_EGPRS_LCH_824.2MHz_4 TX Slots_NTNV



GSM850_EGPRS_MCH_836.6MHz_4 TX Slots_NTNV





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5. Spurious Emission

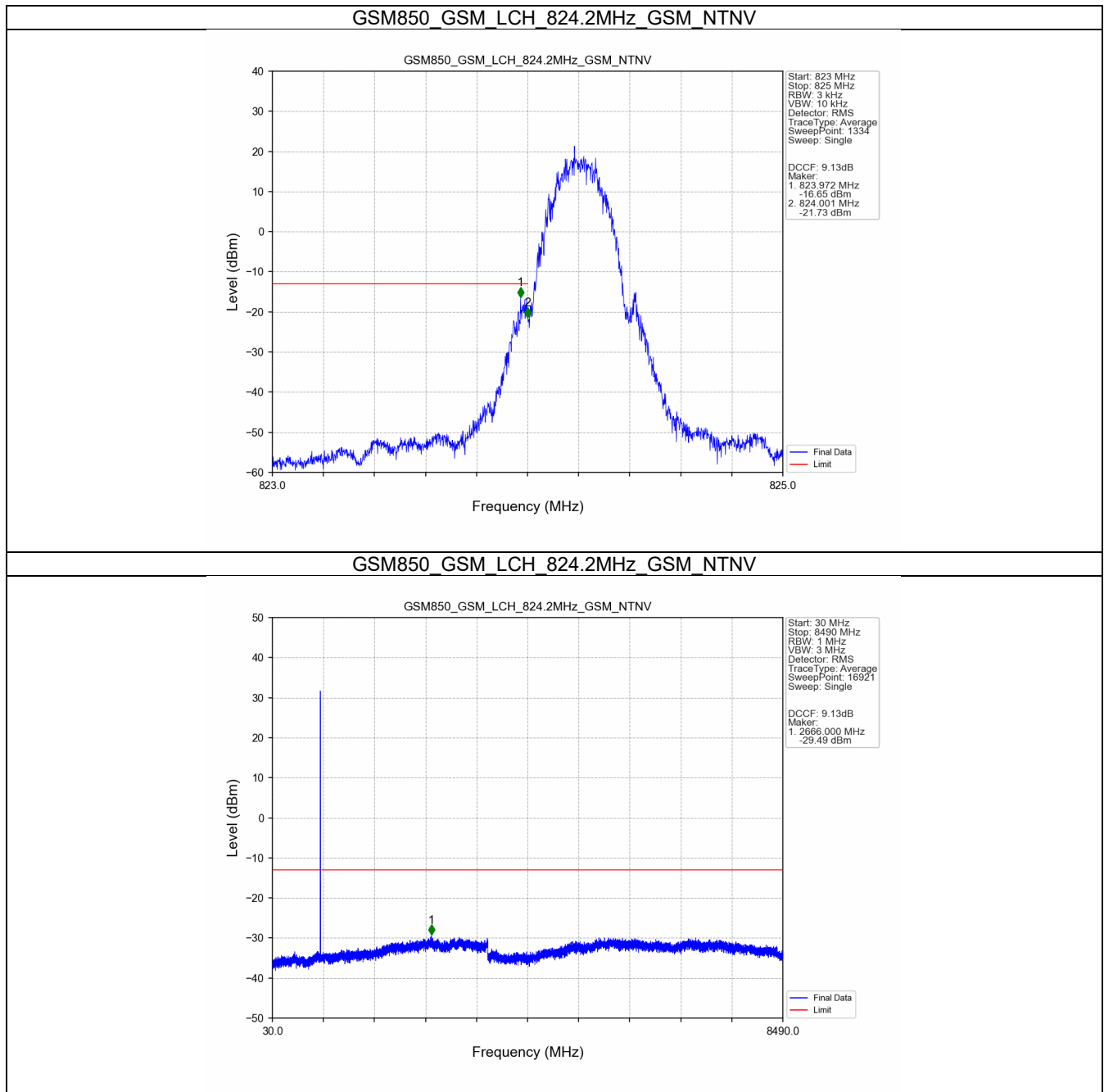
5.1 Test Result

5.1.1 GSM850

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

5.2 Test Graph

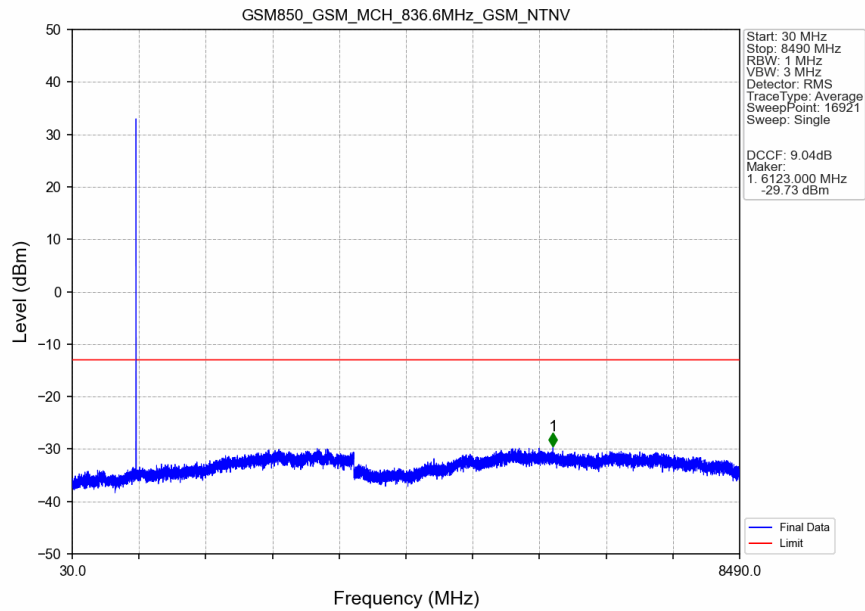
5.2.1 GSM850



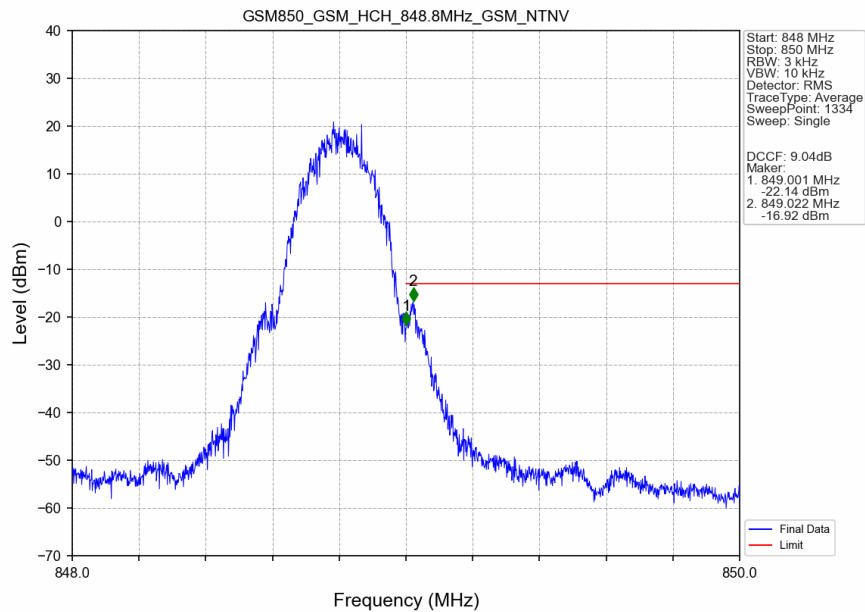
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GSM850 GSM_MCH_836.6MHz_GSM_NTNV



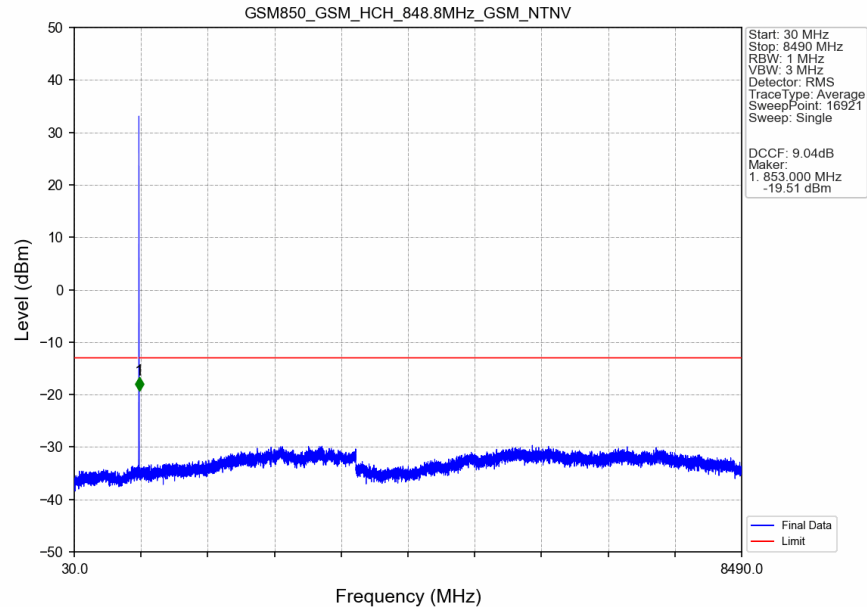
GSM850 GSM_HCH_848.8MHz_GSM_NTNV



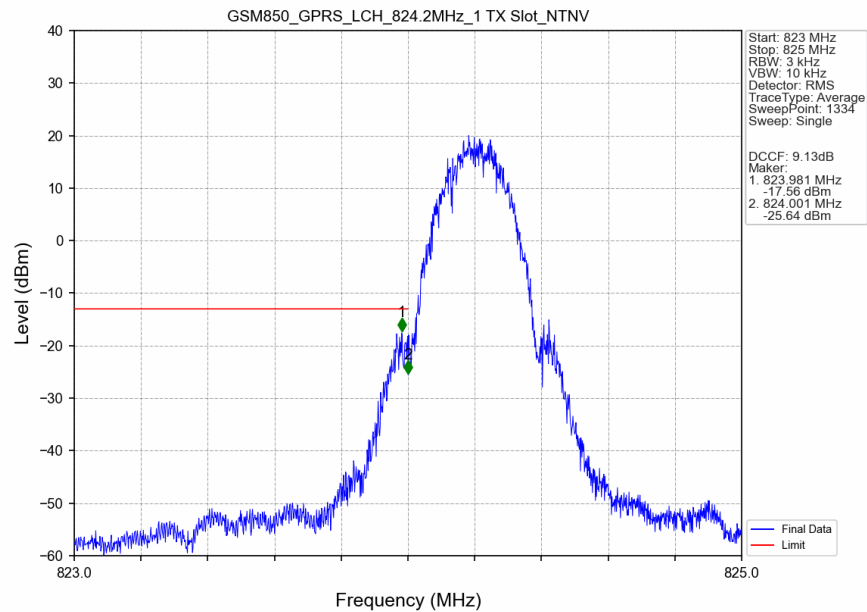
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

GSM850_GSM_HCH_848.8MHz_GSM_NTNV



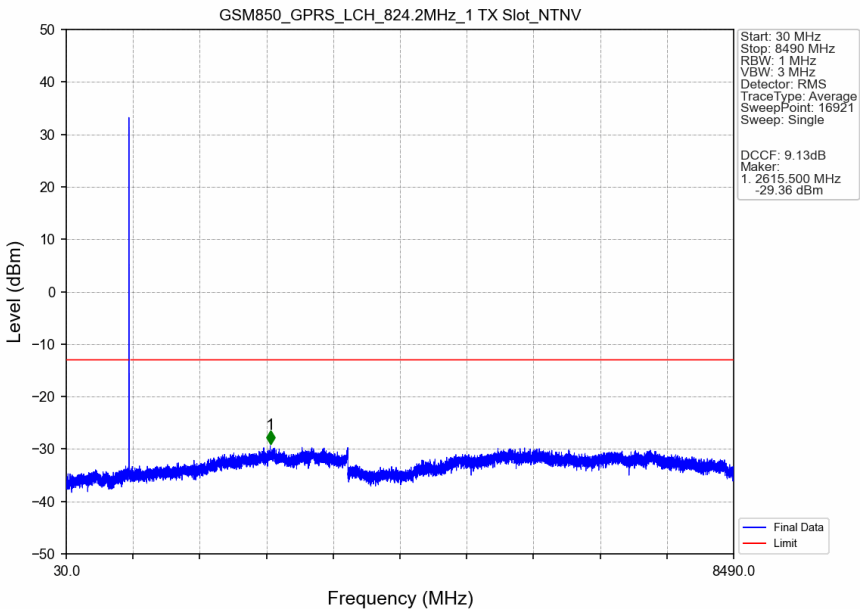
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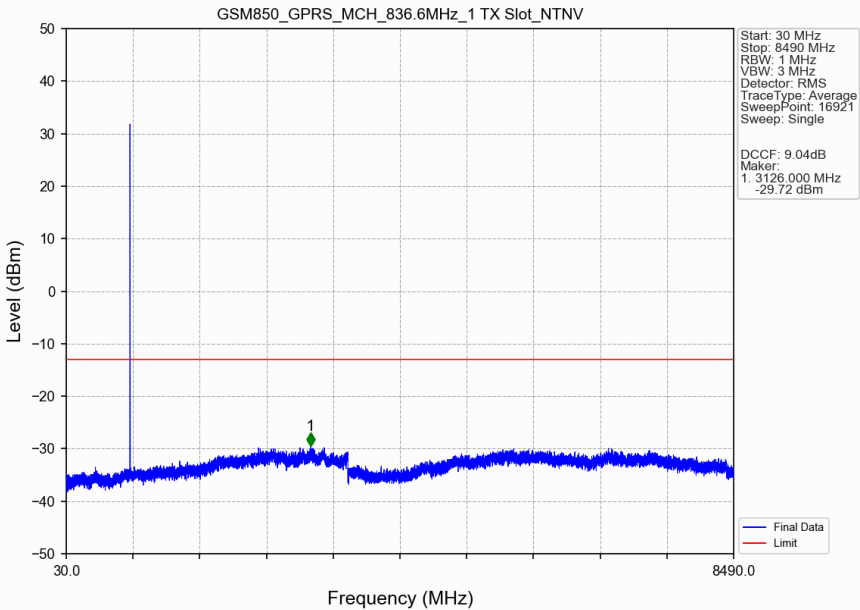
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

GSM850_GPRS_LCH_824.2MHz_1 TX Slot_NTNV



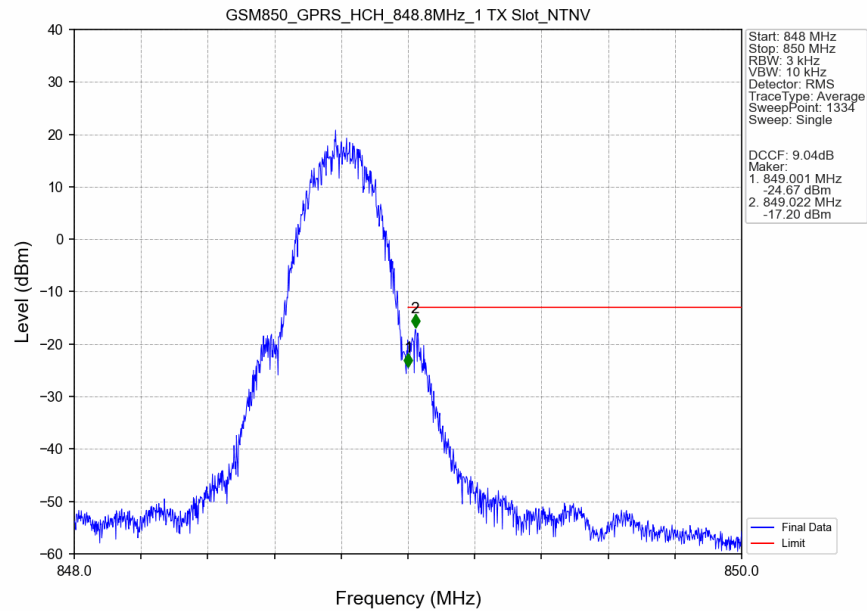
GSM850_GPRS_MCH_836.6MHz_1 TX Slot_NTNV



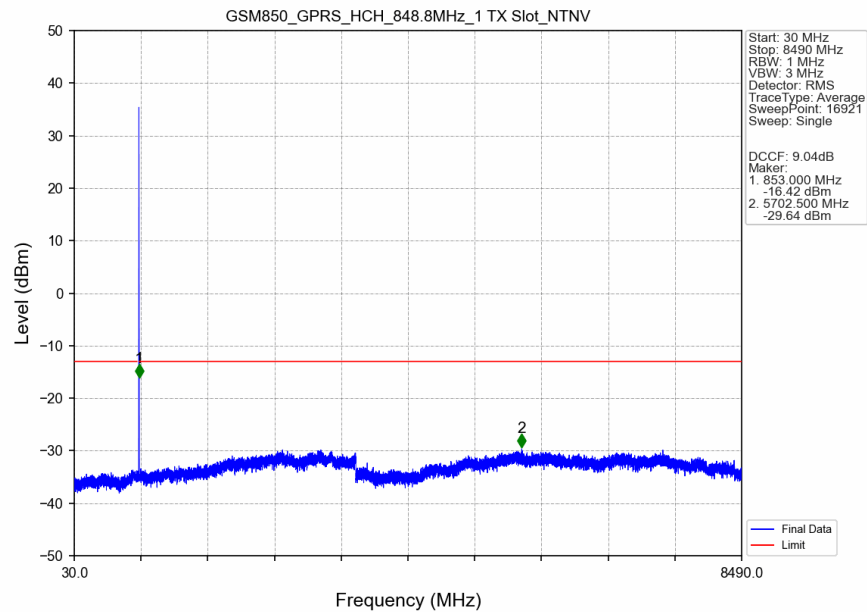
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

GSM850_GPRS_HCH_848.8MHz_1 TX Slot_NTNV



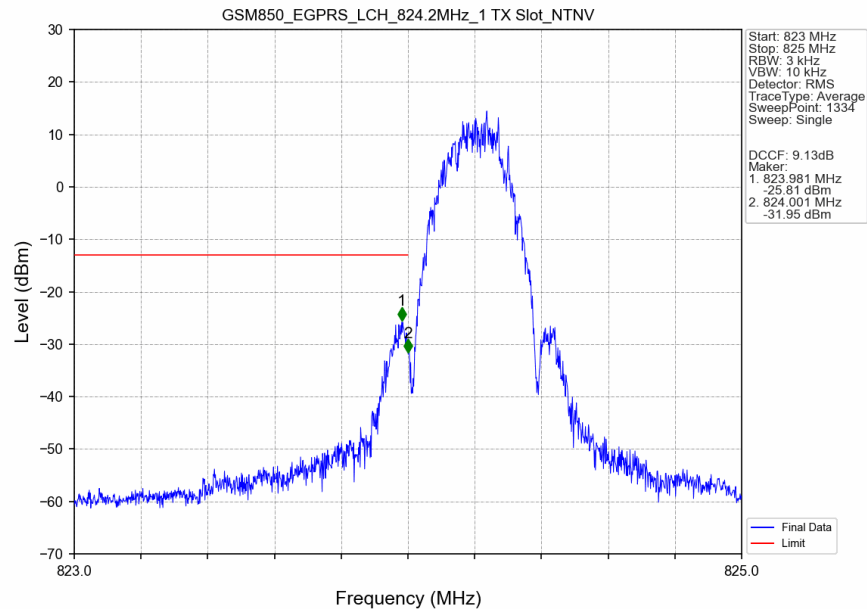
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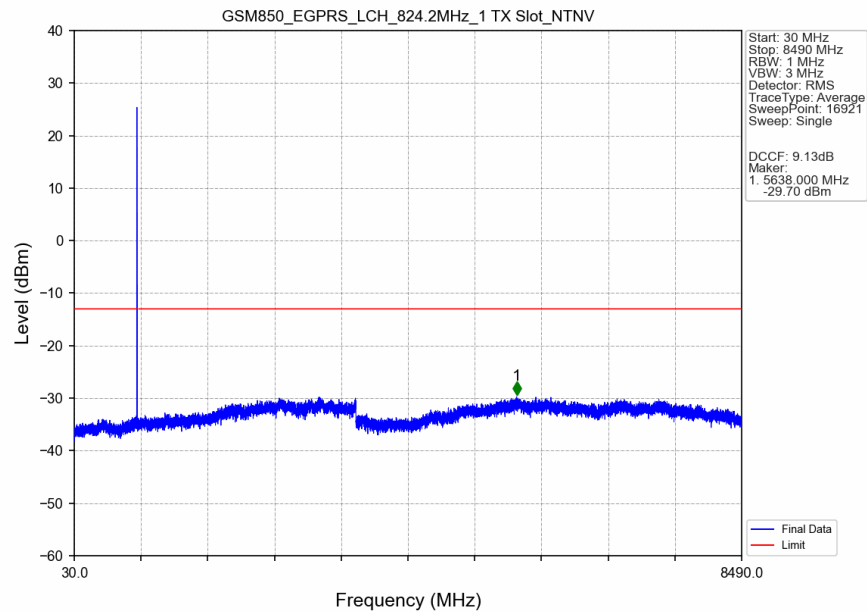
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

Report No.: FYCR2605000011AT

GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



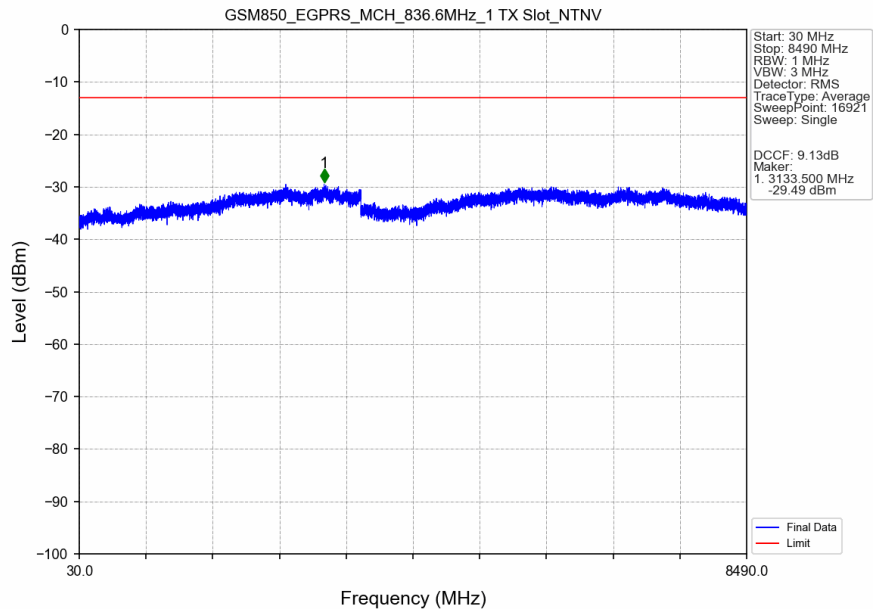
GSM850_EGPRS_LCH_824.2MHz_1 TX Slot_NTNV



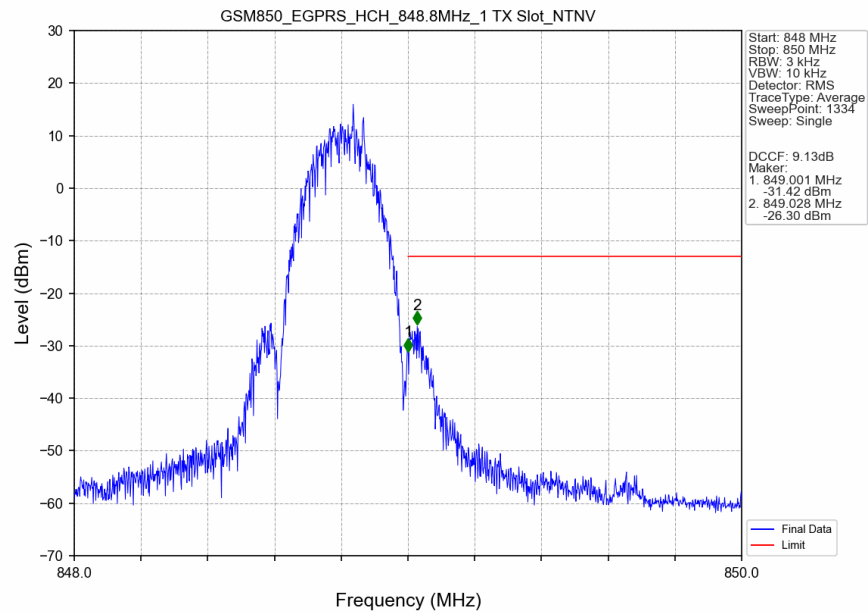
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

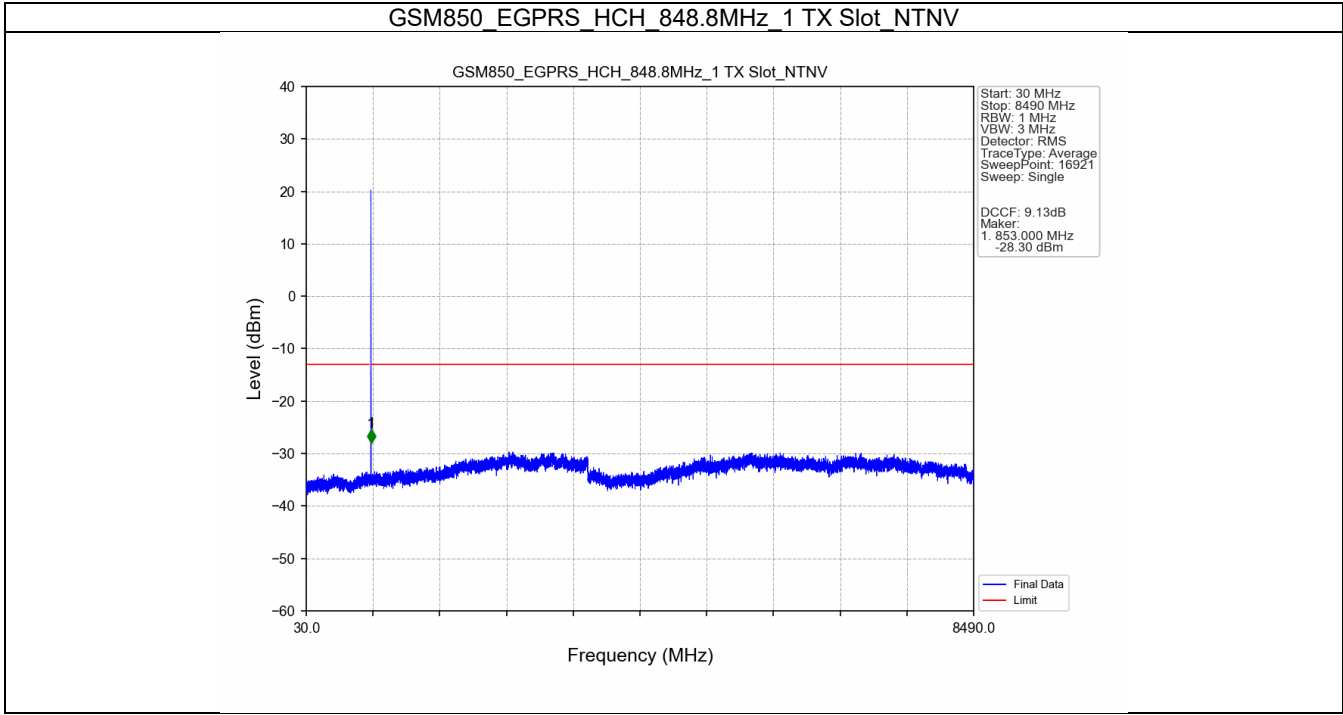
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GSM850_EGPRS_MCH_836.6MHz_1 TX Slot_NTNV



GSM850_EGPRS_HCH_848.8MHz_1 TX Slot_NTNV





- End of the Appendix -