

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 PCS1900_EIRP

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	1850.2	N/A	N/A	N/A	N/A	Pass
			1880	N/A	N/A	N/A	N/A	Pass
			1909.8	N/A	N/A	N/A	N/A	Pass
	GPRS	1 TX Slot	1850.2	31.14	1.00	32.14	<=33.01	Pass
		2 TX Slots	1850.2	30.99	1.00	31.99	<=33.01	Pass
		3 TX Slots	1850.2	30.81	1.00	31.81	<=33.01	Pass
		4 TX Slots	1850.2	31.33	1.00	32.33	<=33.01	Pass
		1 TX Slot	1880	31.13	1.00	32.13	<=33.01	Pass
		2 TX Slots	1880	31.00	1.00	32.00	<=33.01	Pass
		3 TX Slots	1880	30.80	1.00	31.80	<=33.01	Pass
		4 TX Slots	1880	30.59	1.00	31.59	<=33.01	Pass
		1 TX Slot	1909.8	31.14	1.00	32.14	<=33.01	Pass
		2 TX Slots	1909.8	30.98	1.00	31.98	<=33.01	Pass
		3 TX Slots	1909.8	30.76	1.00	31.76	<=33.01	Pass
		4 TX Slots	1909.8	30.53	1.00	31.53	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.97	1.00	26.97	<=33.01	Pass
		2 TX Slots	1850.2	25.79	1.00	26.79	<=33.01	Pass
		3 TX Slots	1850.2	27.21	1.00	28.21	<=33.01	Pass
		4 TX Slots	1850.2	25.35	1.00	26.35	<=33.01	Pass
		1 TX Slot	1880	25.89	1.00	26.89	<=33.01	Pass
		2 TX Slots	1880	25.89	1.00	26.89	<=33.01	Pass
		3 TX Slots	1880	25.69	1.00	26.69	<=33.01	Pass
		4 TX Slots	1880	25.43	1.00	26.43	<=33.01	Pass
		1 TX Slot	1909.8	26.02	1.00	27.02	<=33.01	Pass
		2 TX Slots	1909.8	25.93	1.00	26.93	<=33.01	Pass
		3 TX Slots	1909.8	25.73	1.00	26.73	<=33.01	Pass
		4 TX Slots	1909.8	25.39	1.00	26.39	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 Test Result

2.1.1 PCS1900

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	LV	5.779	0.0031	-2.5 to 2.5	Pass
			NV	9.298	0.0050	-2.5 to 2.5	Pass
			HV	4.746	0.0026	-2.5 to 2.5	Pass
		-30	NV	3.810	0.0021	-2.5 to 2.5	Pass
		-20	NV	6.522	0.0035	-2.5 to 2.5	Pass
		-10	NV	3.390	0.0018	-2.5 to 2.5	Pass
		0	NV	4.197	0.0023	-2.5 to 2.5	Pass
		10	NV	3.229	0.0017	-2.5 to 2.5	Pass
		30	NV	4.520	0.0024	-2.5 to 2.5	Pass
		40	NV	4.197	0.0023	-2.5 to 2.5	Pass
		50	NV	3.099	0.0017	-2.5 to 2.5	Pass
	1880	20	LV	3.455	0.0018	-2.5 to 2.5	Pass
			NV	3.261	0.0017	-2.5 to 2.5	Pass
			HV	5.327	0.0028	-2.5 to 2.5	Pass
		-30	NV	4.520	0.0024	-2.5 to 2.5	Pass
		-20	NV	4.197	0.0022	-2.5 to 2.5	Pass
		-10	NV	4.036	0.0021	-2.5 to 2.5	Pass
		0	NV	0.000	0.0000	-2.5 to 2.5	Pass
		10	NV	6.328	0.0034	-2.5 to 2.5	Pass
		30	NV	2.163	0.0012	-2.5 to 2.5	Pass
		40	NV	4.100	0.0022	-2.5 to 2.5	Pass
		50	NV	3.422	0.0018	-2.5 to 2.5	Pass
	1909.8	20	LV	5.844	0.0031	-2.5 to 2.5	Pass
			NV	6.780	0.0036	-2.5 to 2.5	Pass
			HV	5.908	0.0031	-2.5 to 2.5	Pass
		-30	NV	8.911	0.0047	-2.5 to 2.5	Pass
		-20	NV	5.359	0.0028	-2.5 to 2.5	Pass
		-10	NV	6.296	0.0033	-2.5 to 2.5	Pass
		0	NV	3.358	0.0018	-2.5 to 2.5	Pass
		10	NV	2.841	0.0015	-2.5 to 2.5	Pass
		30	NV	4.165	0.0022	-2.5 to 2.5	Pass
		40	NV	4.972	0.0026	-2.5 to 2.5	Pass
		50	NV	5.553	0.0029	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	10.396	0.0056	-2.5 to 2.5	Pass
			NV	12.236	0.0066	-2.5 to 2.5	Pass
			HV	10.396	0.0056	-2.5 to 2.5	Pass
		-30	NV	10.654	0.0058	-2.5 to 2.5	Pass
		-20	NV	8.136	0.0044	-2.5 to 2.5	Pass
		-10	NV	10.428	0.0056	-2.5 to 2.5	Pass
		0	NV	8.265	0.0045	-2.5 to 2.5	Pass
		10	NV	9.944	0.0054	-2.5 to 2.5	Pass
		30	NV	6.619	0.0036	-2.5 to 2.5	Pass
		40	NV	6.296	0.0034	-2.5 to 2.5	Pass
		50	NV	8.071	0.0044	-2.5 to 2.5	Pass
	1880	20	LV	4.036	0.0021	-2.5 to 2.5	Pass
			NV	3.325	0.0018	-2.5 to 2.5	Pass
			HV	7.716	0.0041	-2.5 to 2.5	Pass
		-30	NV	8.491	0.0045	-2.5 to 2.5	Pass

		-20	NV	9.718	0.0052	-2.5 to 2.5	Pass
		-10	NV	2.841	0.0015	-2.5 to 2.5	Pass
		0	NV	4.778	0.0025	-2.5 to 2.5	Pass
		10	NV	7.587	0.0040	-2.5 to 2.5	Pass
		30	NV	6.199	0.0033	-2.5 to 2.5	Pass
		40	NV	6.877	0.0037	-2.5 to 2.5	Pass
		50	NV	7.587	0.0040	-2.5 to 2.5	Pass
	1909.8	20	LV	8.362	0.0044	-2.5 to 2.5	Pass
			NV	7.167	0.0038	-2.5 to 2.5	Pass
			HV	2.777	0.0015	-2.5 to 2.5	Pass
		-30	NV	10.009	0.0052	-2.5 to 2.5	Pass
		-20	NV	7.393	0.0039	-2.5 to 2.5	Pass
		-10	NV	8.297	0.0043	-2.5 to 2.5	Pass
		0	NV	8.911	0.0047	-2.5 to 2.5	Pass
		10	NV	3.745	0.0020	-2.5 to 2.5	Pass
		30	NV	6.780	0.0036	-2.5 to 2.5	Pass
		40	NV	7.716	0.0040	-2.5 to 2.5	Pass
		50	NV	6.812	0.0036	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

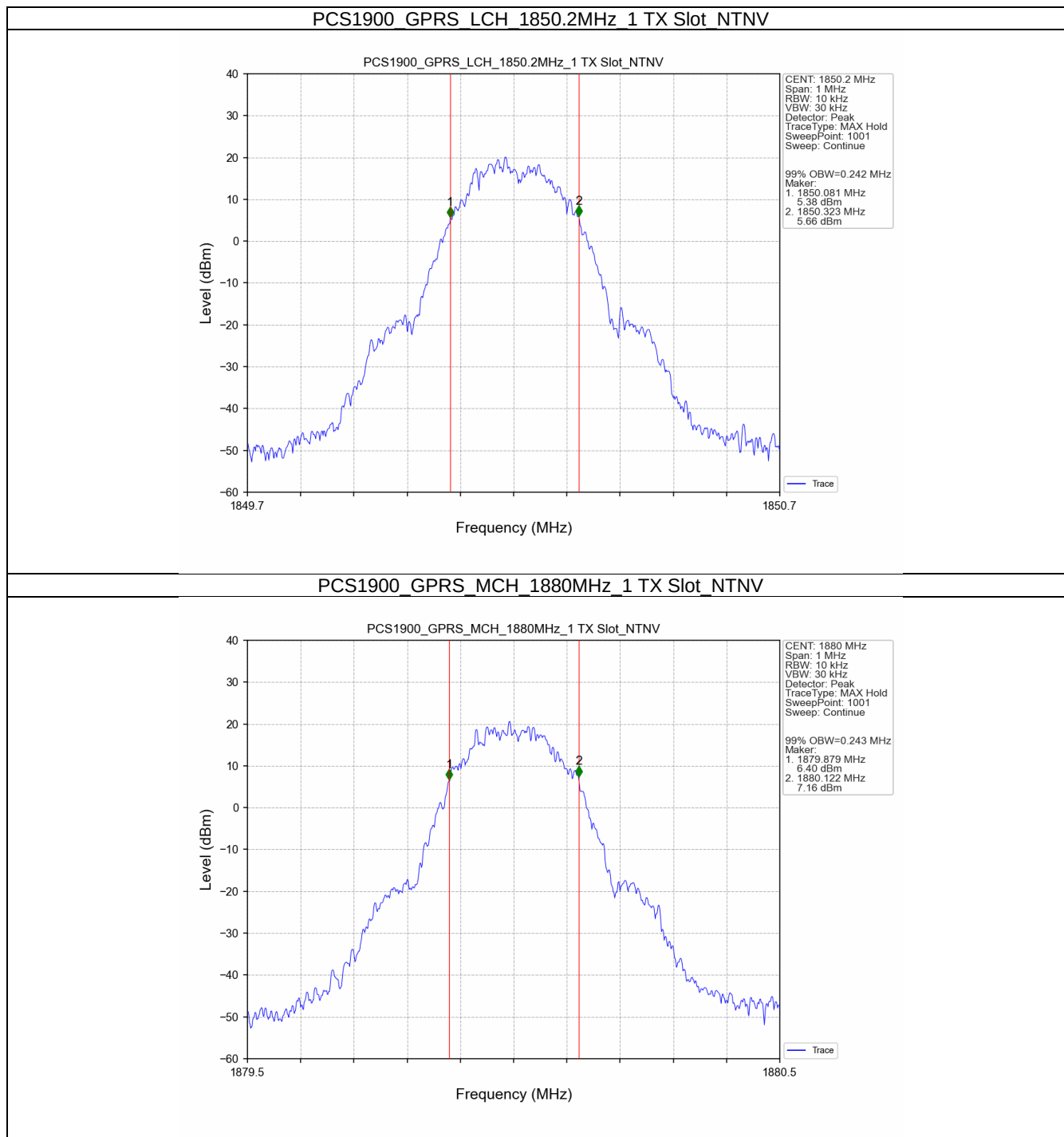
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.242	/	Pass
			1880	0.243	/	Pass
			1909.8	0.246	/	Pass
	EGPRS	1 TX Slot	1850.2	0.244	/	Pass
			1880	0.247	/	Pass
			1909.8	0.238	/	Pass

3.1.2 PCS1900_XDB

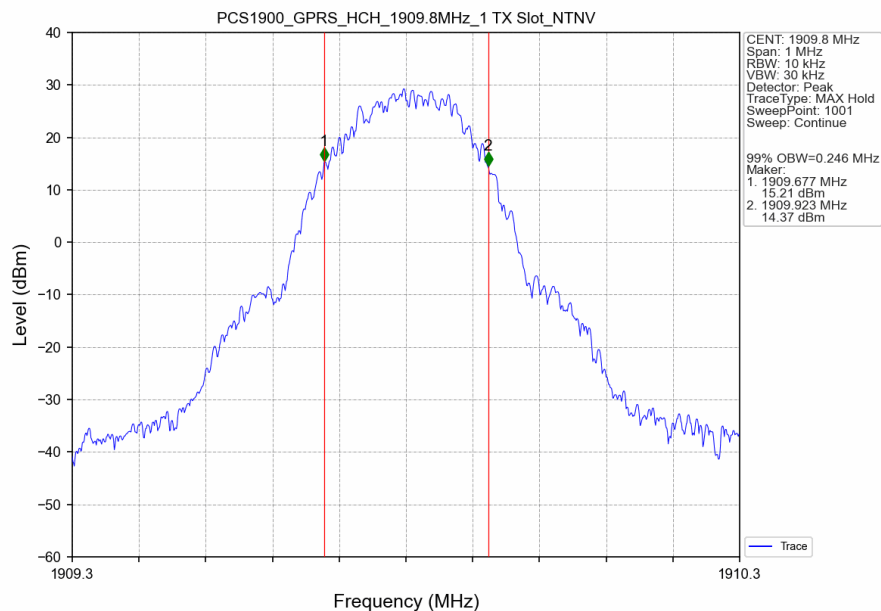
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.310	/	Pass
			1880	0.312	/	Pass
			1909.8	0.319	/	Pass

3.2 Test Graph

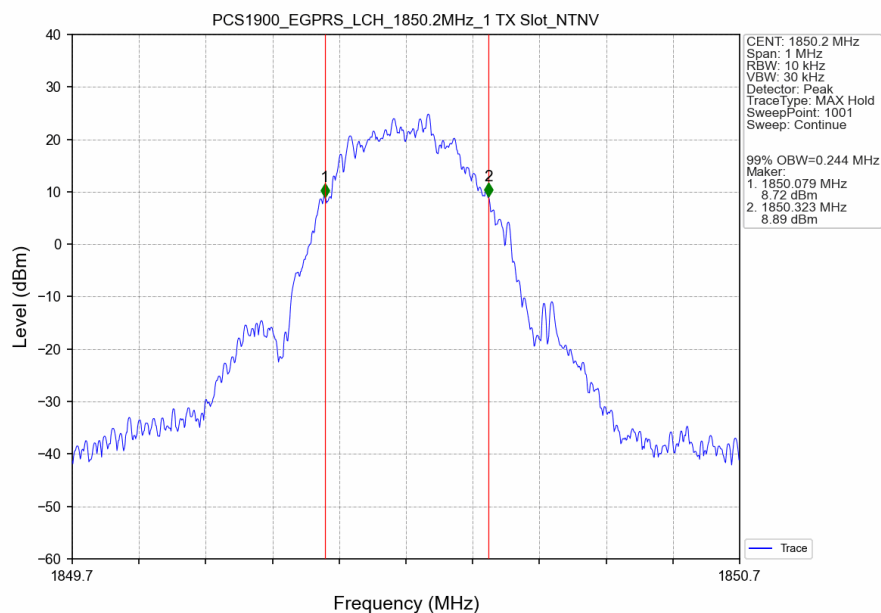
3.2.1 PCS1900_OBW



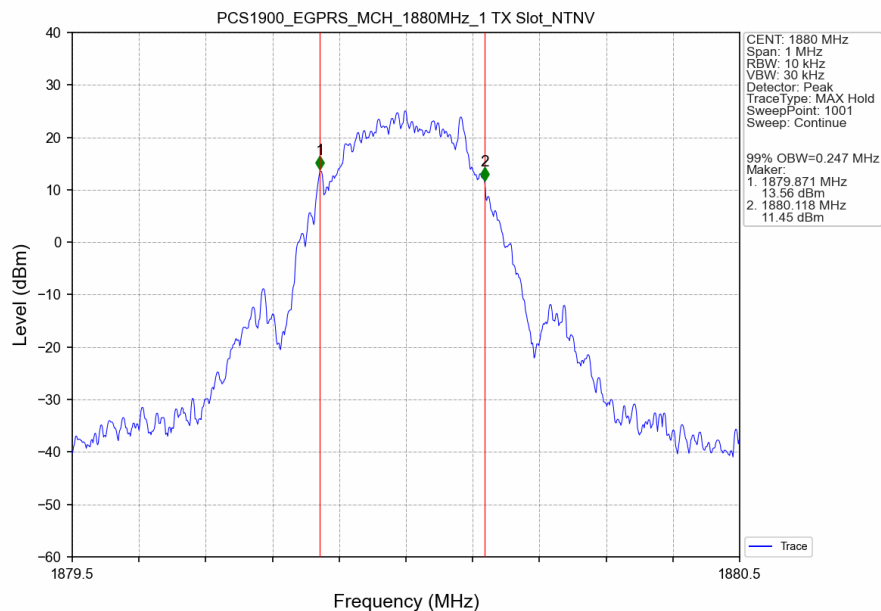
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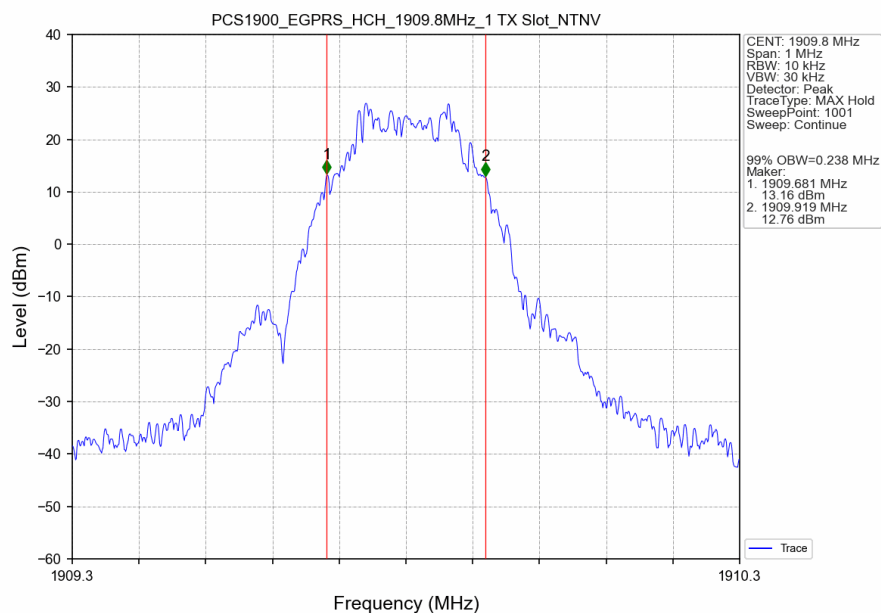
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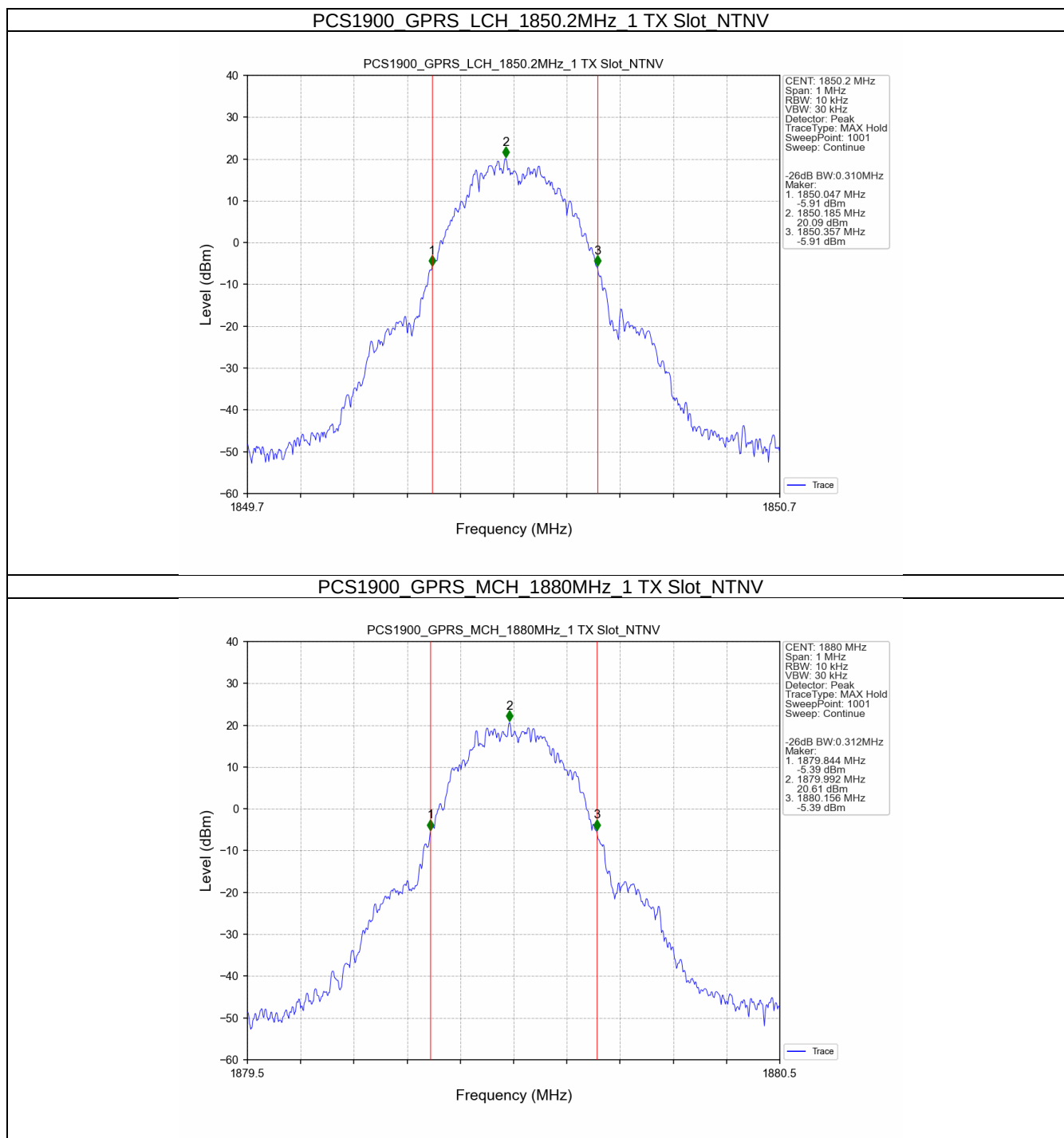
PCS1900 EGPRS MCH 1880MHz 1 TX Slot_NTNV



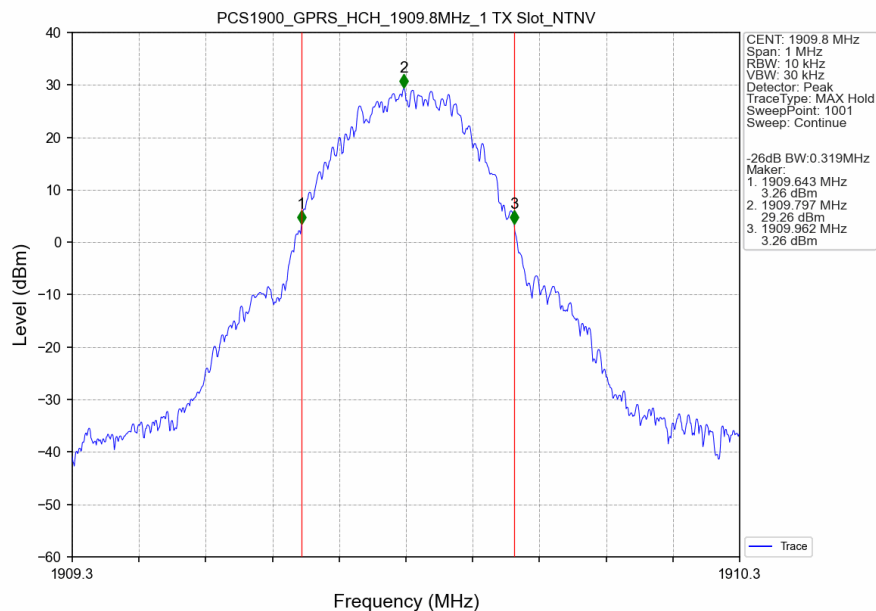
PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot_NTNV



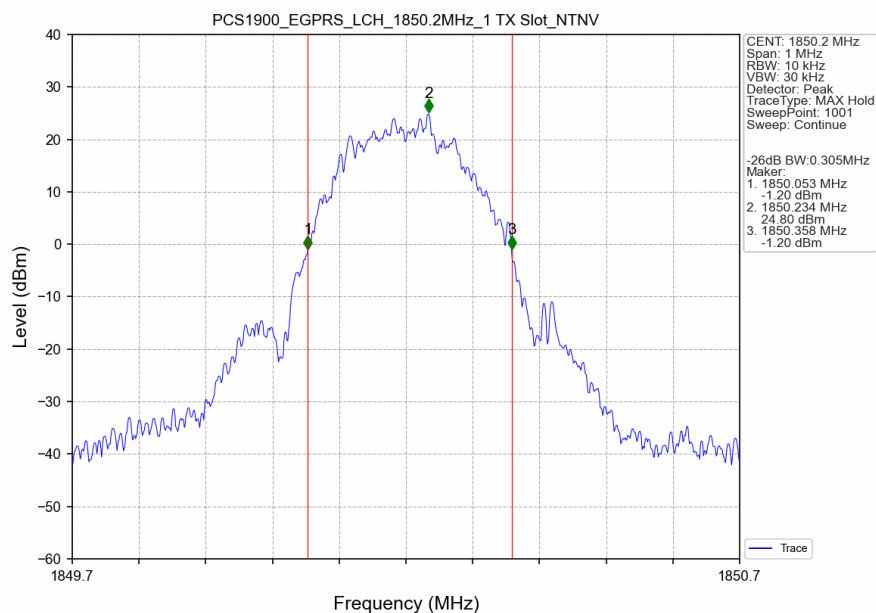
3.2.2 PCS1900_XDB



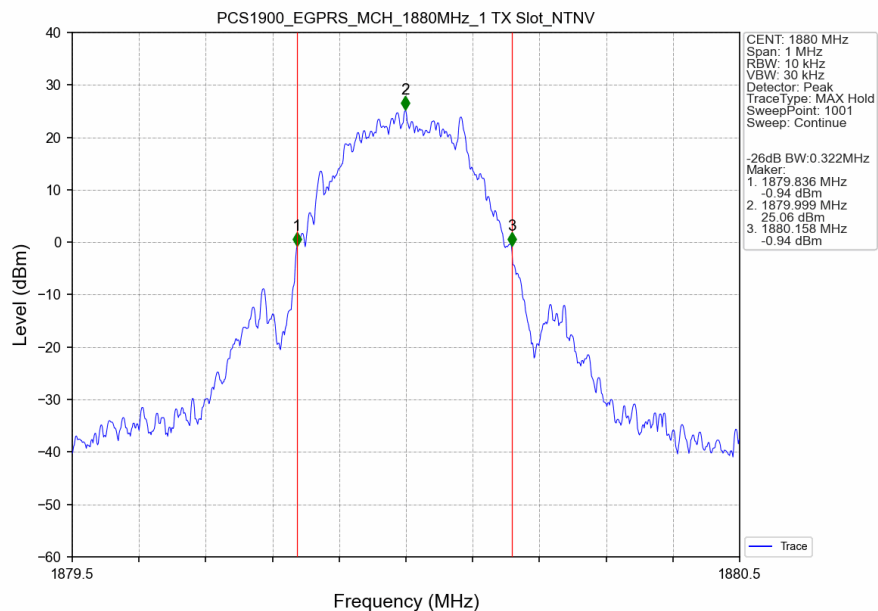
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



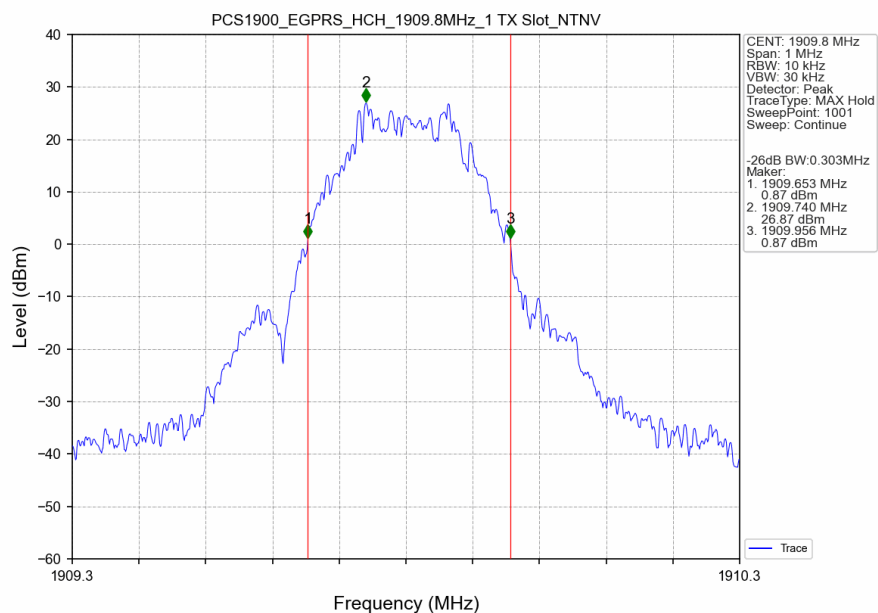
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

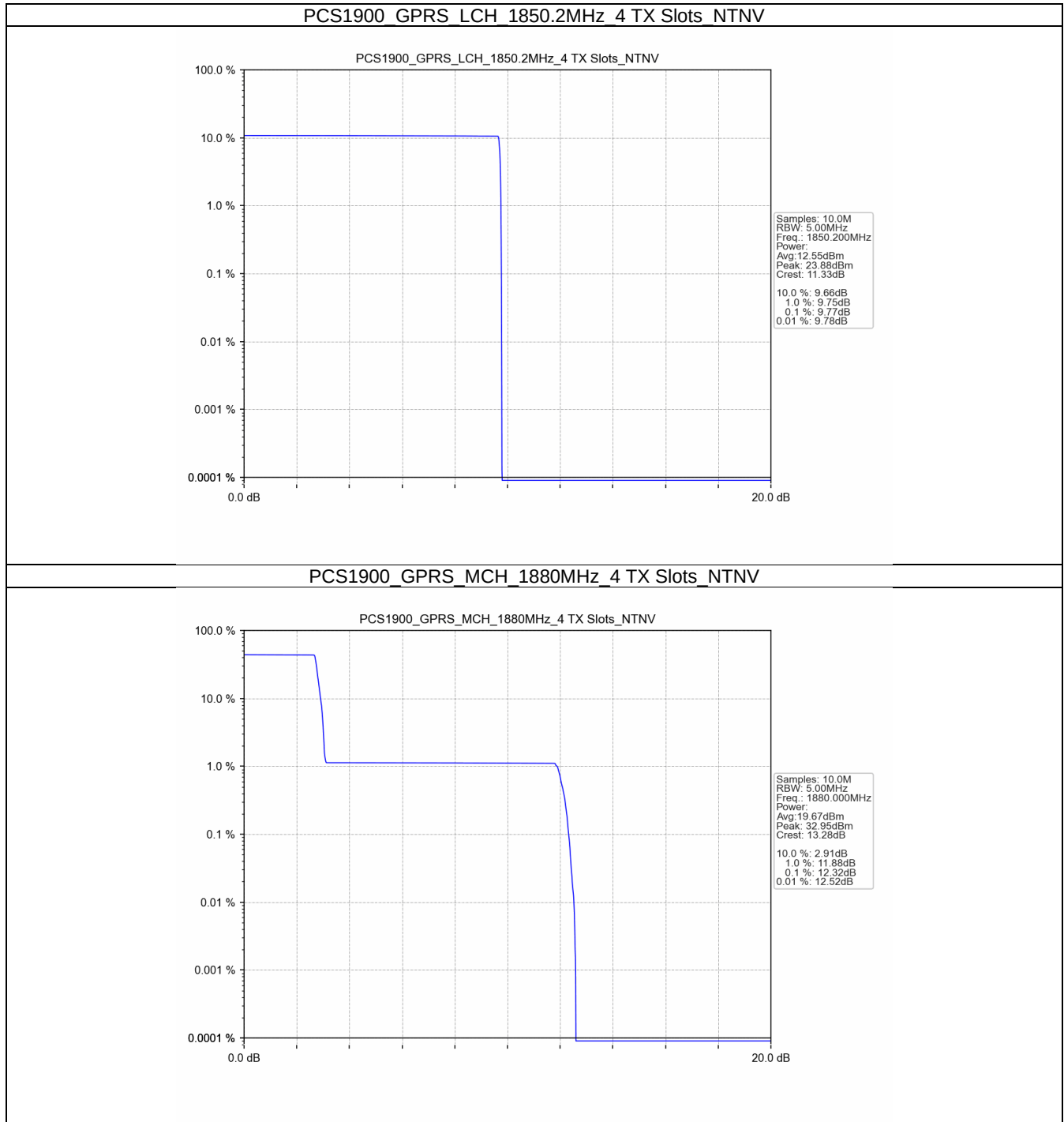
4.1 Test Result

4.1.1 PCS1900

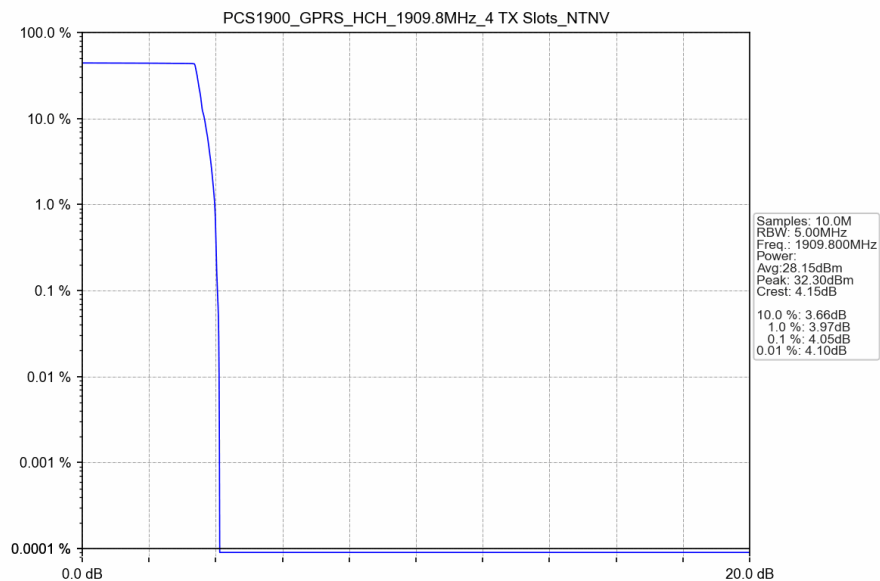
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.77	<=13	Pass
			1880	12.32	<=13	Pass
			1909.8	4.05	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.81	<=13	Pass
			1880	9.07	<=13	Pass
			1909.8	8.90	<=13	Pass

4.2 Test Graph

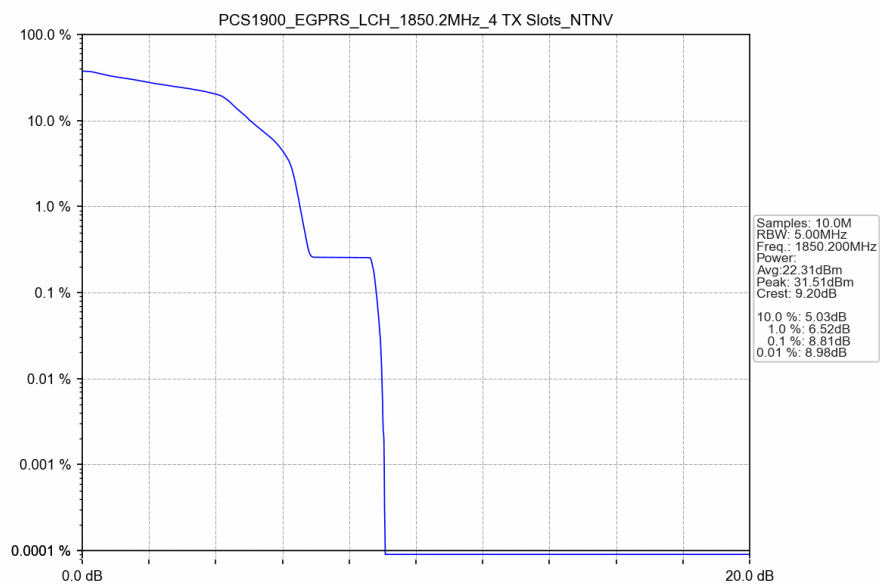
4.2.1 PCS1900



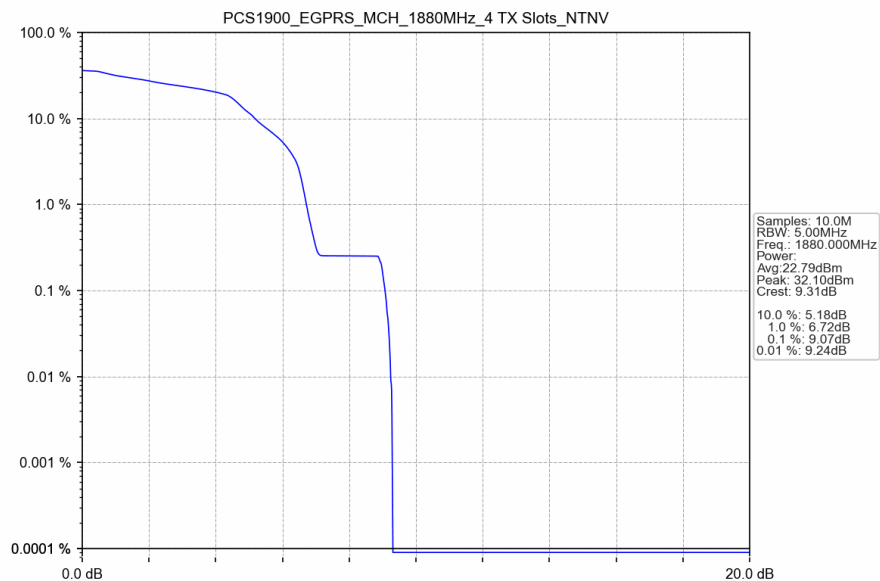
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



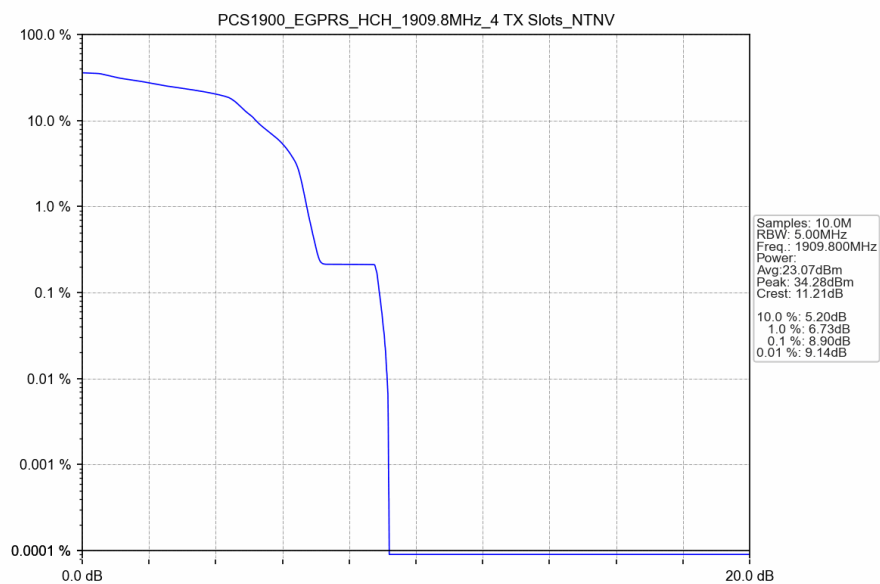
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900 EGPRS MCH 1880MHz 4 TX Slots_NTNV



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots_NTNV



5. Spurious Emission

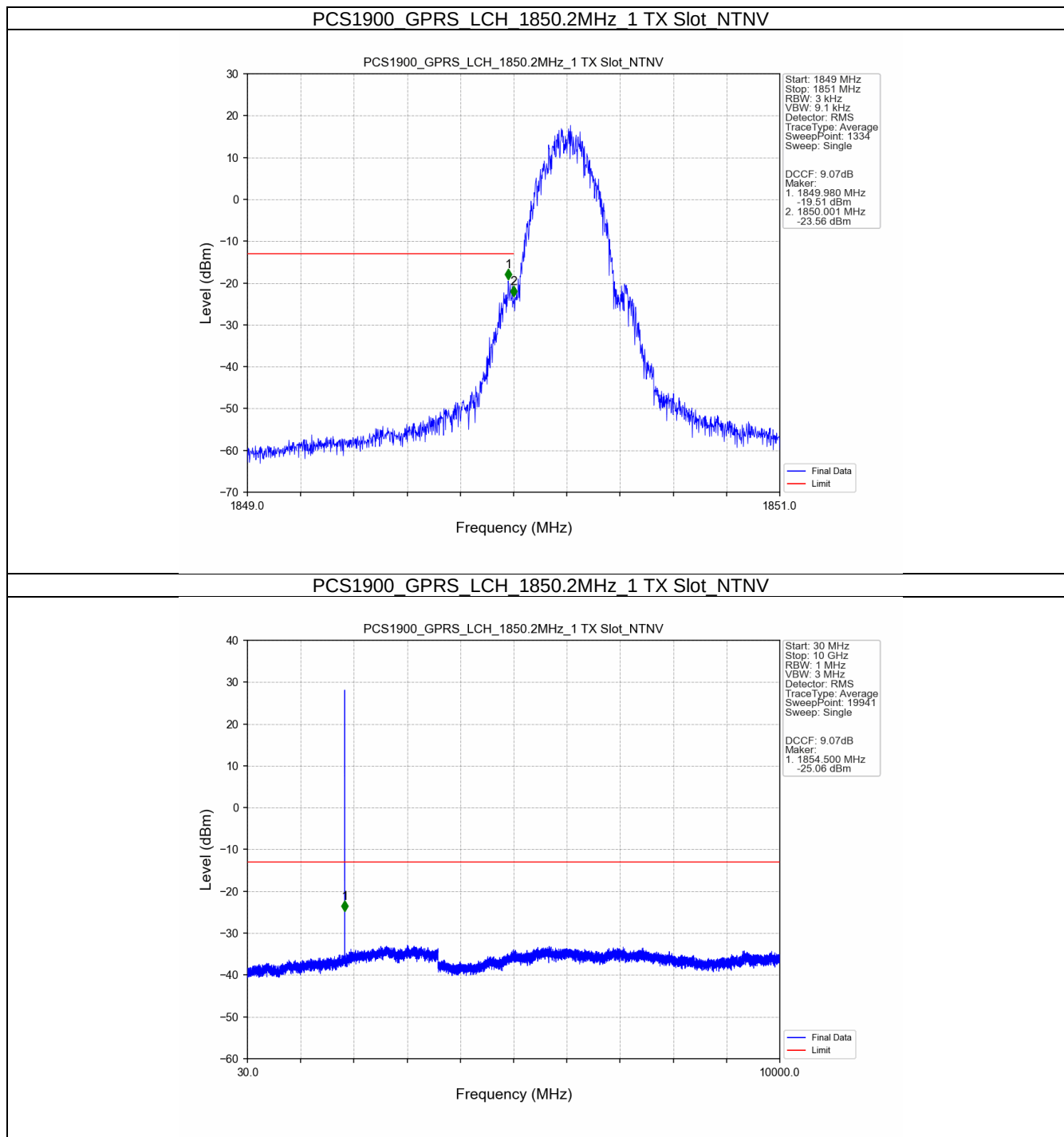
5.1 Test Result

5.1.1 PCS1900

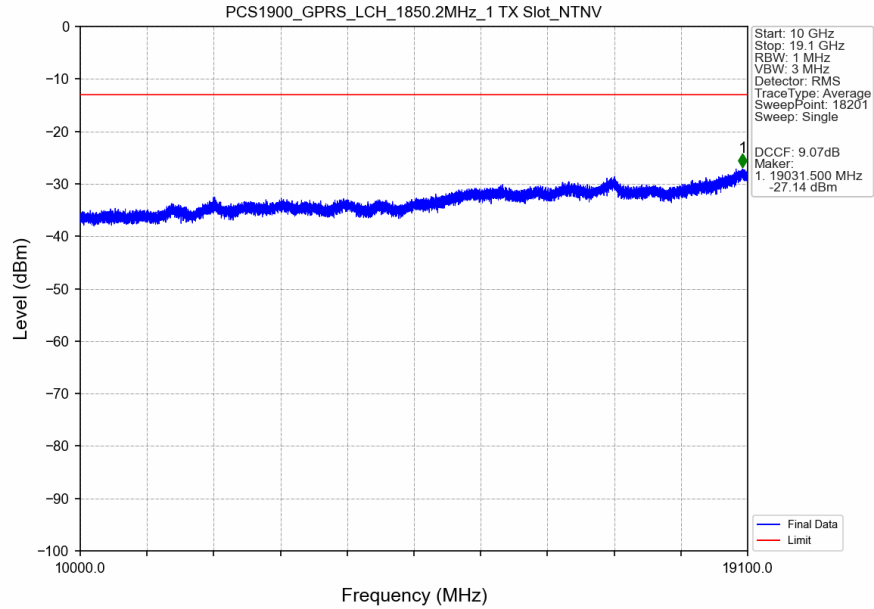
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	

5.2 Test Graph

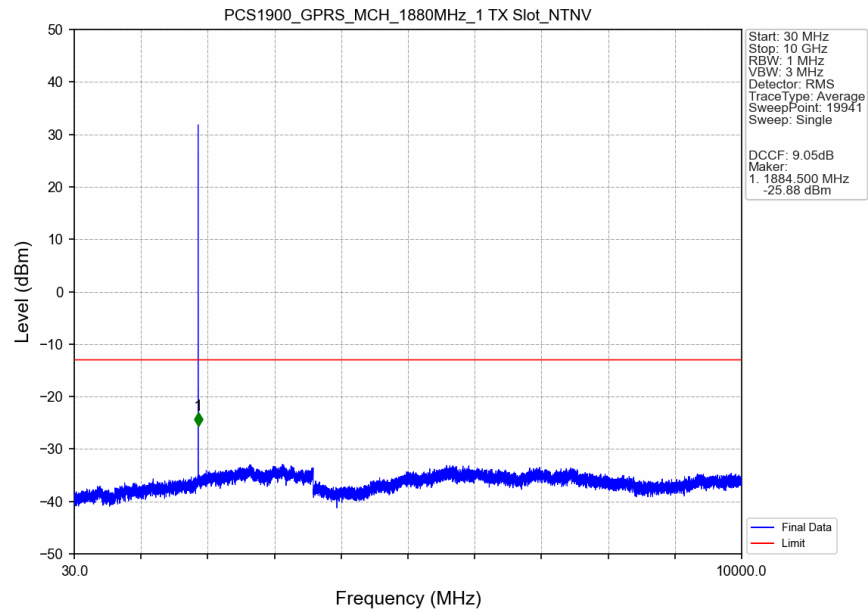
5.2.1 PCS1900



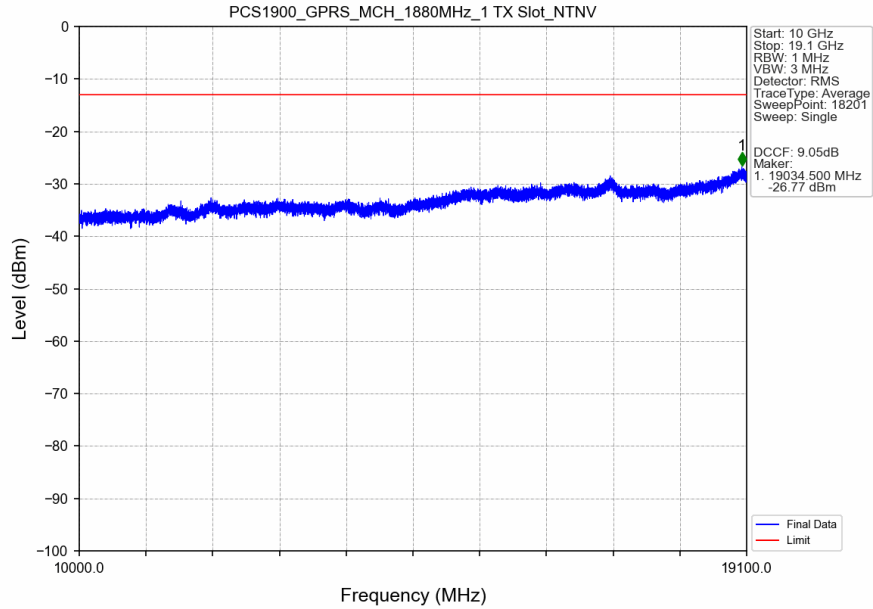
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



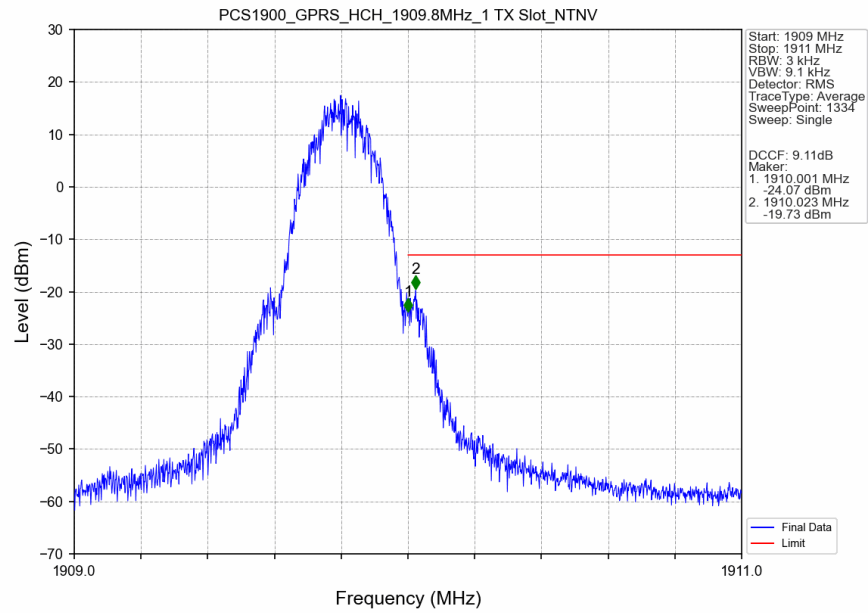
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



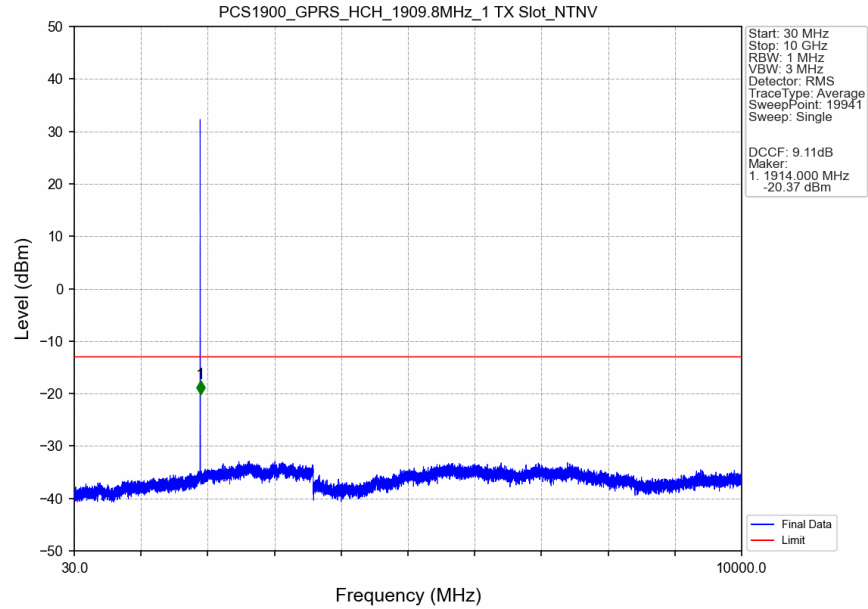
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



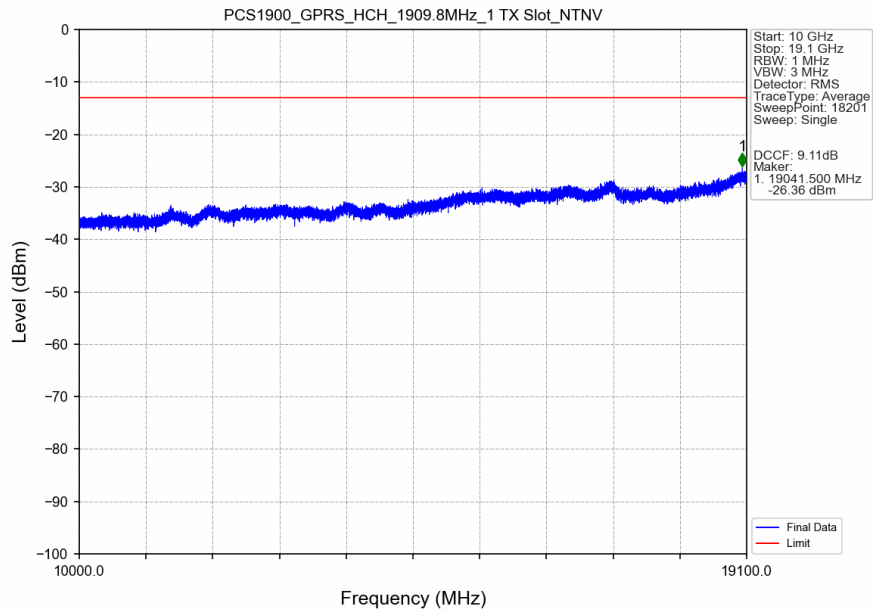
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



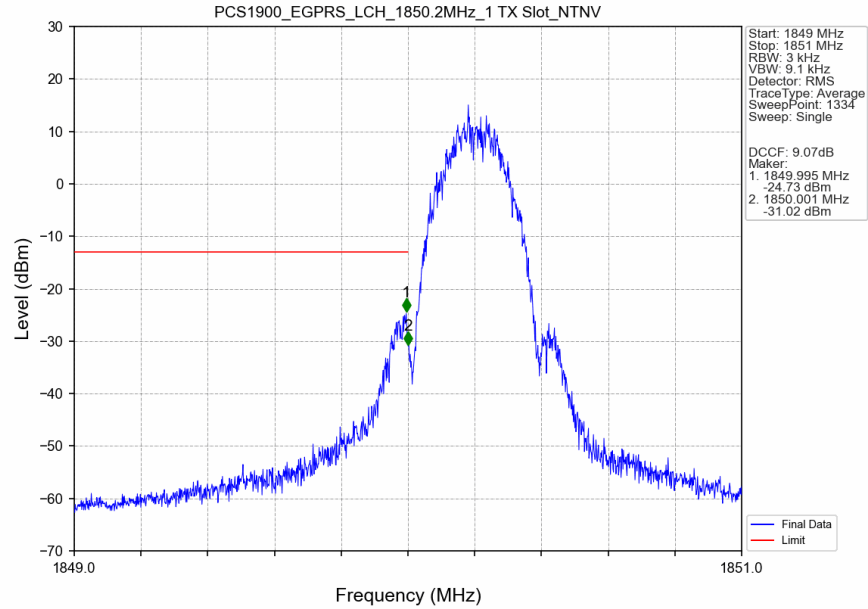
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



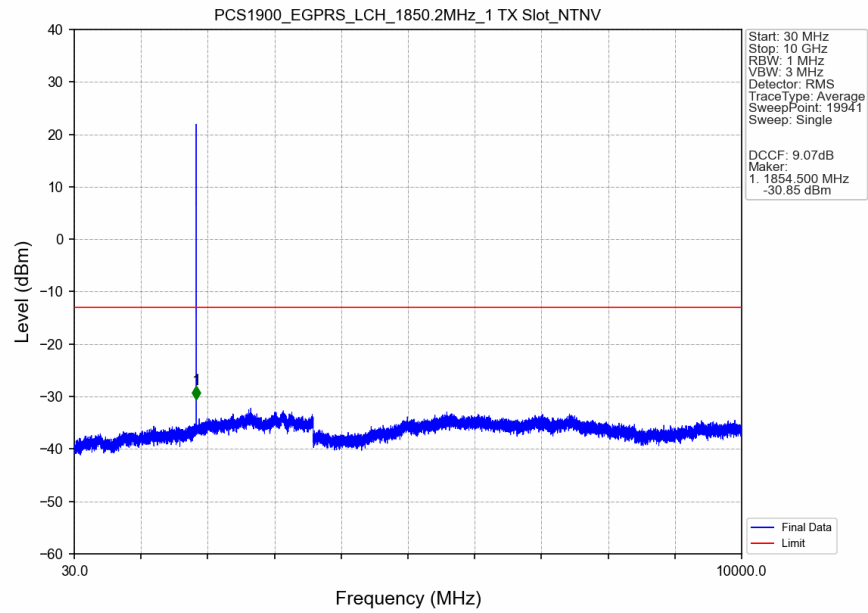
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



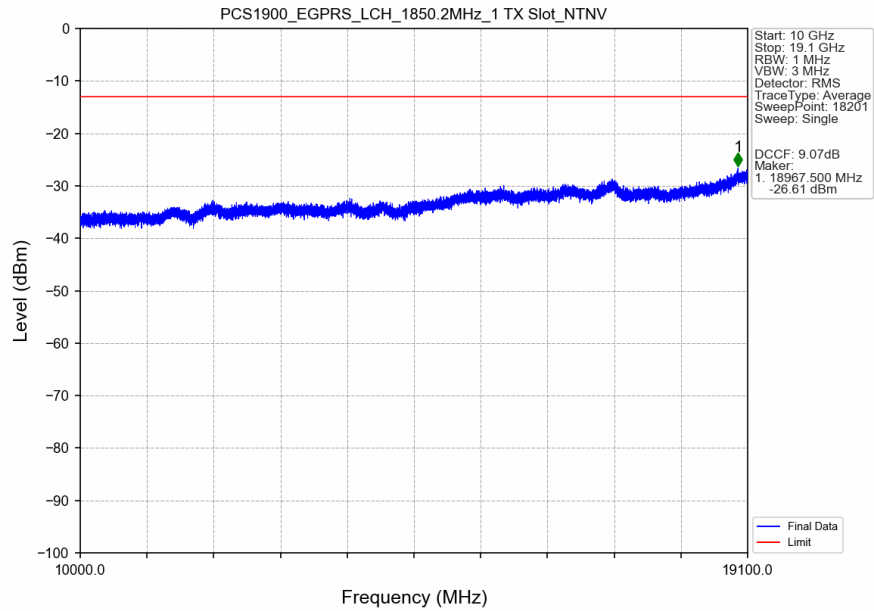
PCS1900 EGPRS LCH 1850.2MHz_1 TX Slot_NTNV



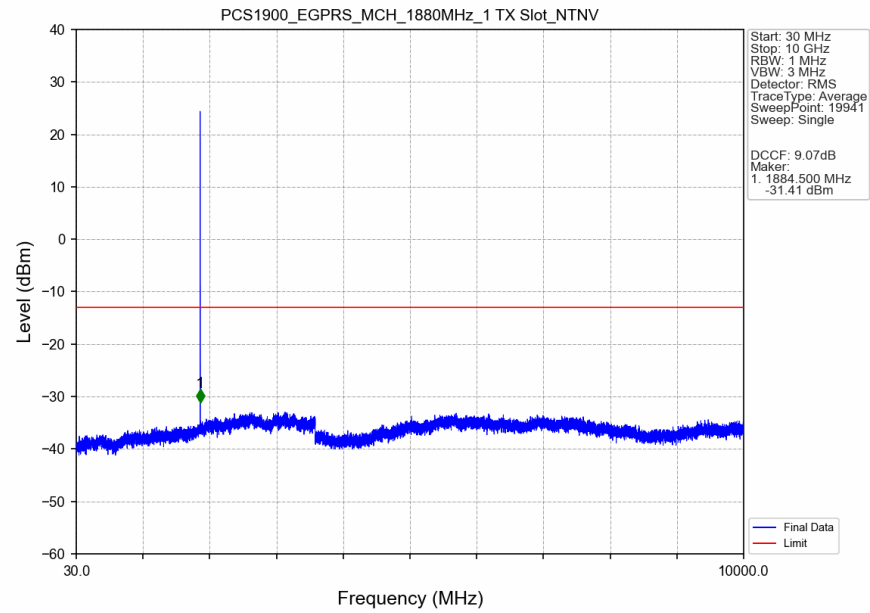
PCS1900 EGPRS LCH 1850.2MHz_1 TX Slot_NTNV



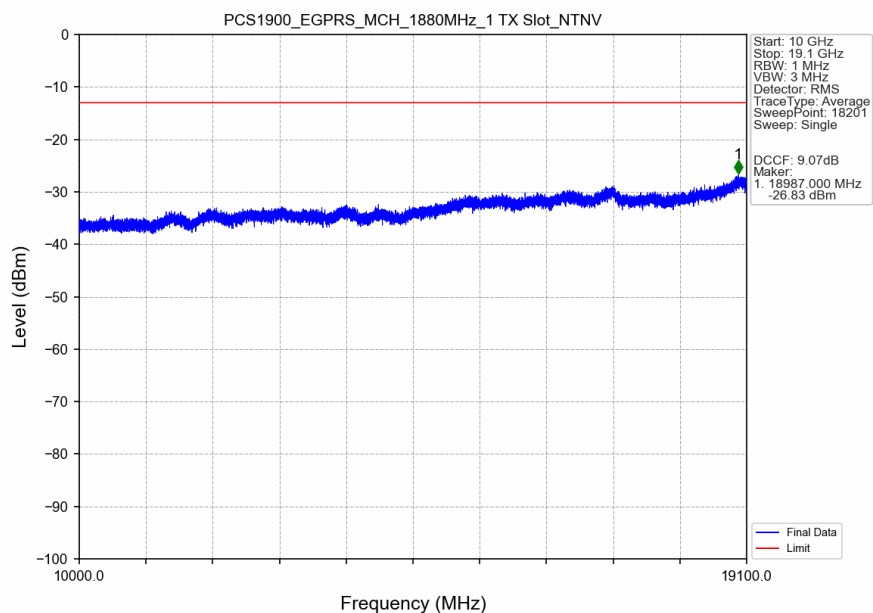
PCS1900 EGPRS LCH 1850.2MHz_1 TX Slot_NTNV



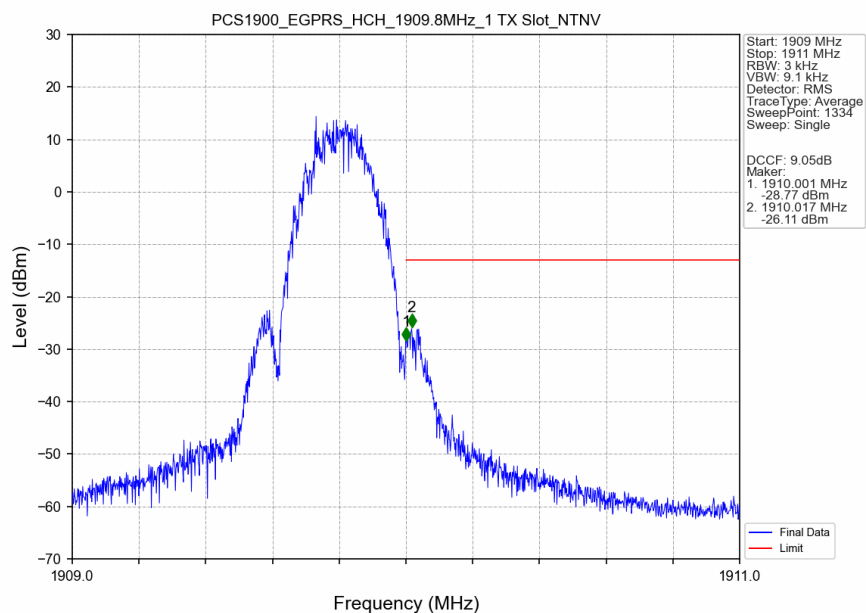
PCS1900 EGPRS MCH 1880MHz_1 TX Slot_NTNV



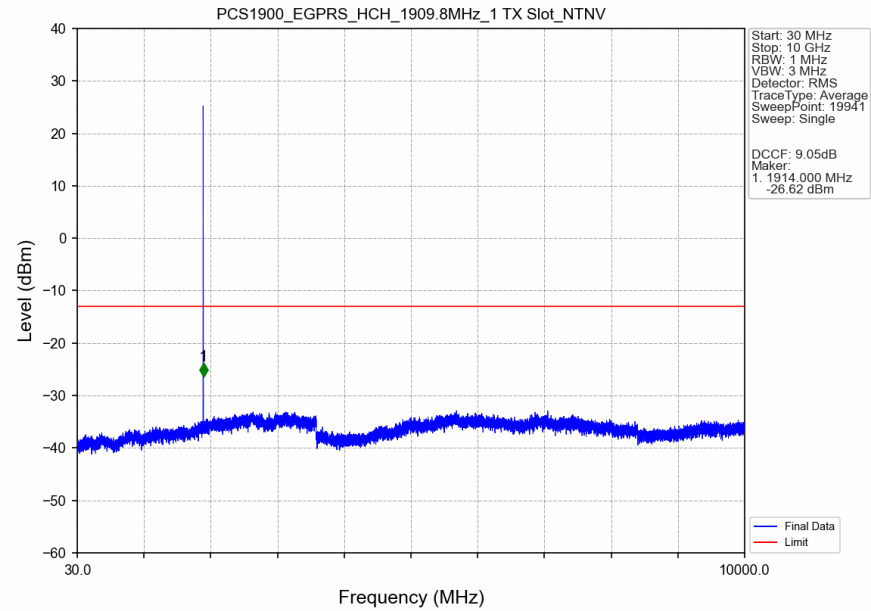
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

