

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	GPRS	1 TX Slot	1850.2	27.19	-0.38	26.81	<=33.01	Pass
		2 TX Slots	1850.2	26.17	-0.38	25.79	<=33.01	Pass
		3 TX Slots	1850.2	24.26	-0.38	23.88	<=33.01	Pass
		4 TX Slots	1850.2	23.42	-0.38	23.04	<=33.01	Pass
		1 TX Slot	1880	27.74	-0.38	27.36	<=33.01	Pass
		2 TX Slots	1880	26.67	-0.38	26.29	<=33.01	Pass
		3 TX Slots	1880	24.67	-0.38	24.29	<=33.01	Pass
		4 TX Slots	1880	23.8	-0.38	23.42	<=33.01	Pass
		1 TX Slot	1909.8	27.85	-0.38	27.47	<=33.01	Pass
		2 TX Slots	1909.8	26.66	-0.38	26.28	<=33.01	Pass
		3 TX Slots	1909.8	24.57	-0.38	24.19	<=33.01	Pass
		4 TX Slots	1909.8	23.64	-0.38	23.26	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.07	-0.38	24.69	<=33.01	Pass
		2 TX Slots	1850.2	24.12	-0.38	23.74	<=33.01	Pass
		3 TX Slots	1850.2	22.57	-0.38	22.19	<=33.01	Pass
		4 TX Slots	1850.2	20.43	-0.38	20.05	<=33.01	Pass
		1 TX Slot	1880	25.68	-0.38	25.3	<=33.01	Pass
		2 TX Slots	1880	24.75	-0.38	24.37	<=33.01	Pass
		3 TX Slots	1880	22.79	-0.38	22.41	<=33.01	Pass
		4 TX Slots	1880	21.19	-0.38	20.81	<=33.01	Pass
		1 TX Slot	1909.8	25.25	-0.38	24.87	<=33.01	Pass
		2 TX Slots	1909.8	24.92	-0.38	24.54	<=33.01	Pass
		3 TX Slots	1909.8	22.2	-0.38	21.82	<=33.01	Pass
		4 TX Slots	1909.8	20.58	-0.38	20.2	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	LV	4.003	0.0022	-2.5 to 2.5	Pass
			NV	-4.907	-0.0027	-2.5 to 2.5	Pass
			HV	9.847	0.0053	-2.5 to 2.5	Pass
		-30	NV	-4.197	-0.0023	-2.5 to 2.5	Pass
		-20	NV	5.876	0.0032	-2.5 to 2.5	Pass
		-10	NV	1.065	0.0006	-2.5 to 2.5	Pass
		0	NV	6.748	0.0036	-2.5 to 2.5	Pass
		10	NV	-2.518	-0.0014	-2.5 to 2.5	Pass
		30	NV	3.003	0.0016	-2.5 to 2.5	Pass
		40	NV	-2.325	-0.0013	-2.5 to 2.5	Pass
		50	NV	-5.682	-0.0031	-2.5 to 2.5	Pass
	1880	20	LV	-2.873	-0.0015	-2.5 to 2.5	Pass
			NV	-4.003	-0.0021	-2.5 to 2.5	Pass
			HV	-4.843	-0.0026	-2.5 to 2.5	Pass
		-30	NV	5.876	0.0031	-2.5 to 2.5	Pass
		-20	NV	-7.523	-0.0040	-2.5 to 2.5	Pass
		-10	NV	-6.360	-0.0034	-2.5 to 2.5	Pass
		0	NV	-3.132	-0.0017	-2.5 to 2.5	Pass
		10	NV	-4.746	-0.0025	-2.5 to 2.5	Pass
		30	NV	-6.683	-0.0036	-2.5 to 2.5	Pass
		40	NV	-3.842	-0.0020	-2.5 to 2.5	Pass
		50	NV	8.007	0.0043	-2.5 to 2.5	Pass
	1909.8	20	LV	9.750	0.0051	-2.5 to 2.5	Pass
			NV	3.551	0.0019	-2.5 to 2.5	Pass
			HV	-8.491	-0.0044	-2.5 to 2.5	Pass
		-30	NV	-10.202	-0.0053	-2.5 to 2.5	Pass
		-20	NV	-11.171	-0.0058	-2.5 to 2.5	Pass
		-10	NV	-7.361	-0.0039	-2.5 to 2.5	Pass
		0	NV	5.585	0.0029	-2.5 to 2.5	Pass
		10	NV	-3.616	-0.0019	-2.5 to 2.5	Pass
		30	NV	-2.292	-0.0012	-2.5 to 2.5	Pass
		40	NV	-5.424	-0.0028	-2.5 to 2.5	Pass
		50	NV	-16.789	-0.0088	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	-4.649	-0.0025	-2.5 to 2.5	Pass
			NV	-4.003	-0.0022	-2.5 to 2.5	Pass
			HV	-6.941	-0.0038	-2.5 to 2.5	Pass
		-30	NV	5.295	0.0029	-2.5 to 2.5	Pass
		-20	NV	-3.584	-0.0019	-2.5 to 2.5	Pass
		-10	NV	-0.678	-0.0004	-2.5 to 2.5	Pass
		0	NV	-10.267	-0.0055	-2.5 to 2.5	Pass
		10	NV	-7.038	-0.0038	-2.5 to 2.5	Pass
		30	NV	-14.690	-0.0079	-2.5 to 2.5	Pass
		40	NV	-2.777	-0.0015	-2.5 to 2.5	Pass
		50	NV	-6.360	-0.0034	-2.5 to 2.5	Pass

	1880	20	LV	-13.011	-0.0069	-2.5 to 2.5	Pass
			NV	-8.717	-0.0046	-2.5 to 2.5	Pass
			HV	-7.297	-0.0039	-2.5 to 2.5	Pass
		-30	NV	-9.815	-0.0052	-2.5 to 2.5	Pass
		-20	NV	2.551	0.0014	-2.5 to 2.5	Pass
		-10	NV	-2.454	-0.0013	-2.5 to 2.5	Pass
		0	NV	-17.757	-0.0094	-2.5 to 2.5	Pass
		10	NV	-19.953	-0.0106	-2.5 to 2.5	Pass
		30	NV	-8.749	-0.0047	-2.5 to 2.5	Pass
		40	NV	-3.713	-0.0020	-2.5 to 2.5	Pass
		50	NV	-11.106	-0.0059	-2.5 to 2.5	Pass
	1909.8	20	LV	-19.598	-0.0103	-2.5 to 2.5	Pass
			NV	-9.783	-0.0051	-2.5 to 2.5	Pass
			HV	-7.006	-0.0037	-2.5 to 2.5	Pass
		-30	NV	-14.593	-0.0076	-2.5 to 2.5	Pass
		-20	NV	-1.324	-0.0007	-2.5 to 2.5	Pass
		-10	NV	-8.717	-0.0046	-2.5 to 2.5	Pass
		0	NV	-5.521	-0.0029	-2.5 to 2.5	Pass
		10	NV	-10.073	-0.0053	-2.5 to 2.5	Pass
		30	NV	-5.908	-0.0031	-2.5 to 2.5	Pass
		40	NV	6.457	0.0034	-2.5 to 2.5	Pass
		50	NV	6.974	0.0037	-2.5 to 2.5	Pass



3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

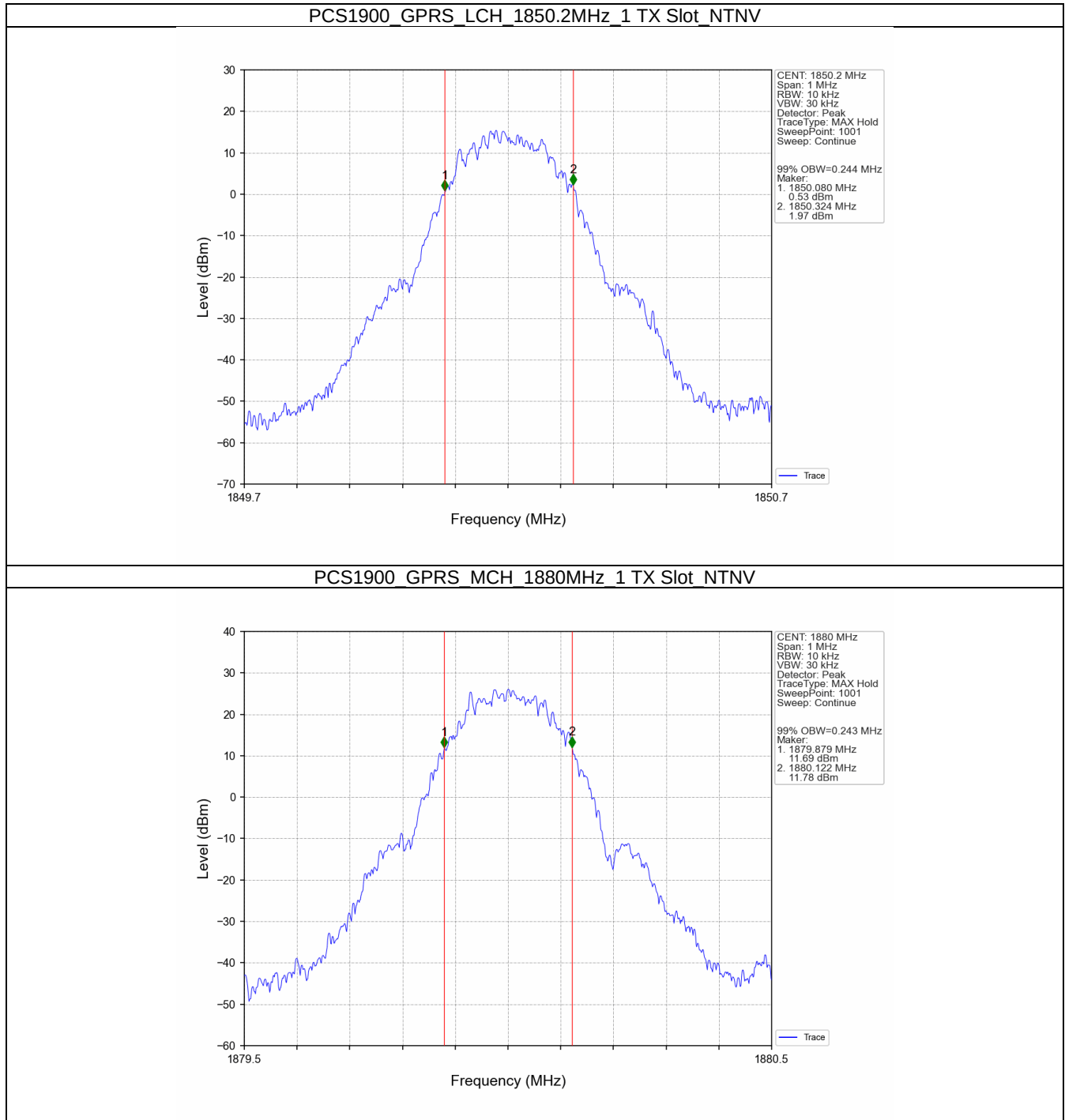
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.244	/	Pass
			1880	0.243	/	Pass
			1909.8	0.247	/	Pass
	EGPRS	1 TX Slot	1850.2	0.257	/	Pass
			1880	0.241	/	Pass
			1909.8	0.246	/	Pass

3.1.2 PCS1900_XDB

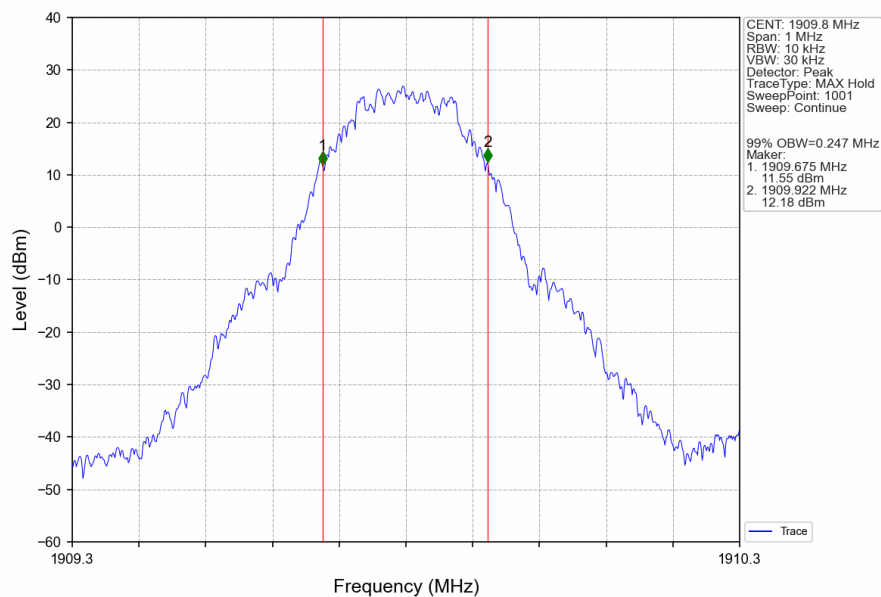
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.316	/	Pass
			1880	0.316	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.319	/	Pass
			1880	0.310	/	Pass
			1909.8	0.311	/	Pass

3.2 Test Graph

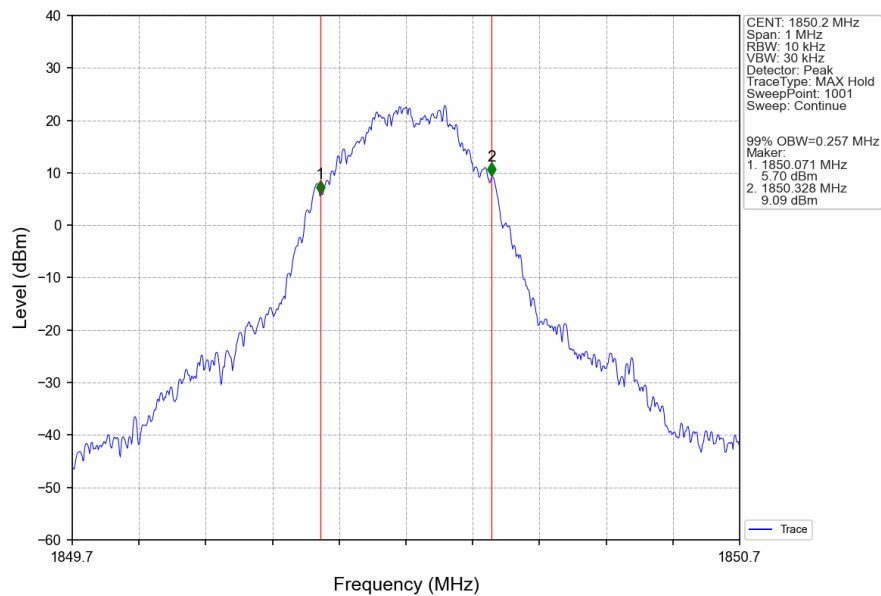
3.2.1 PCS1900_OBW



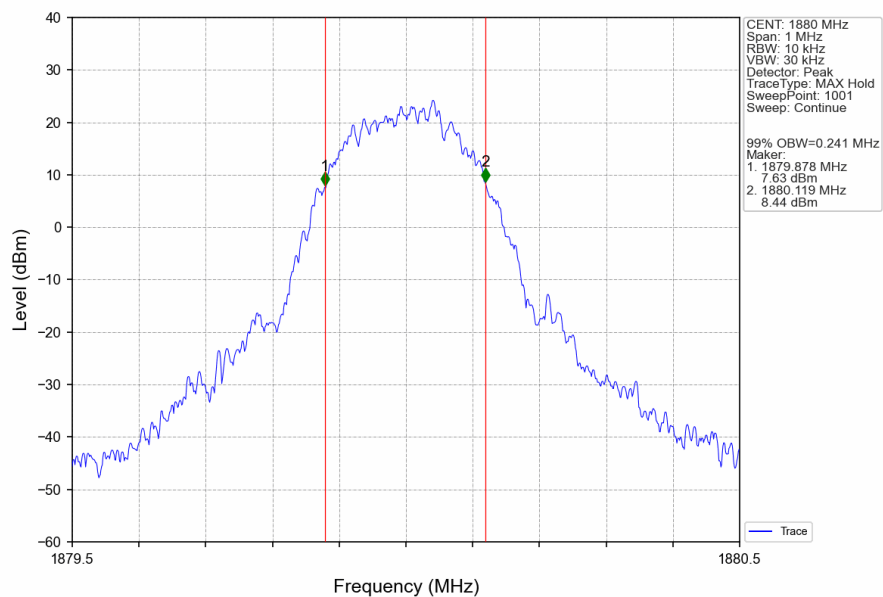
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



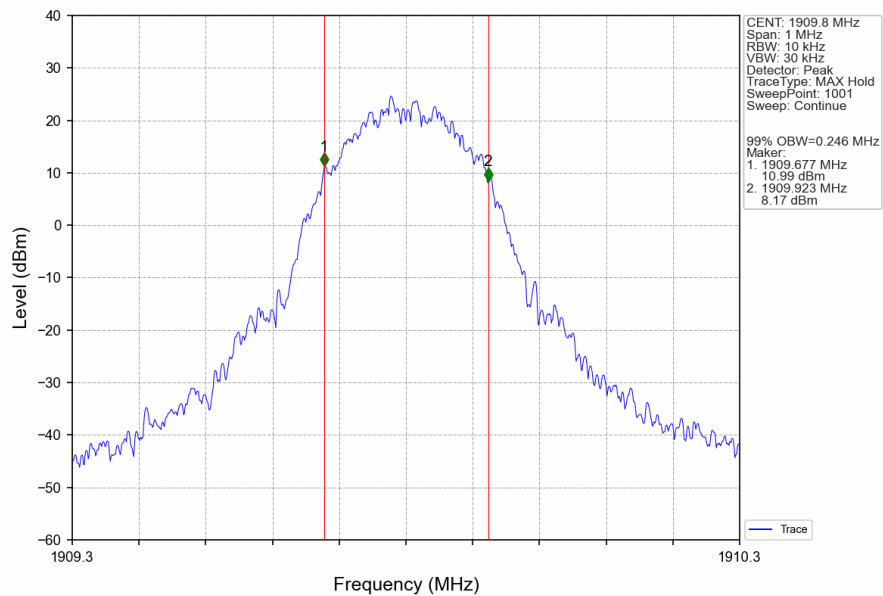
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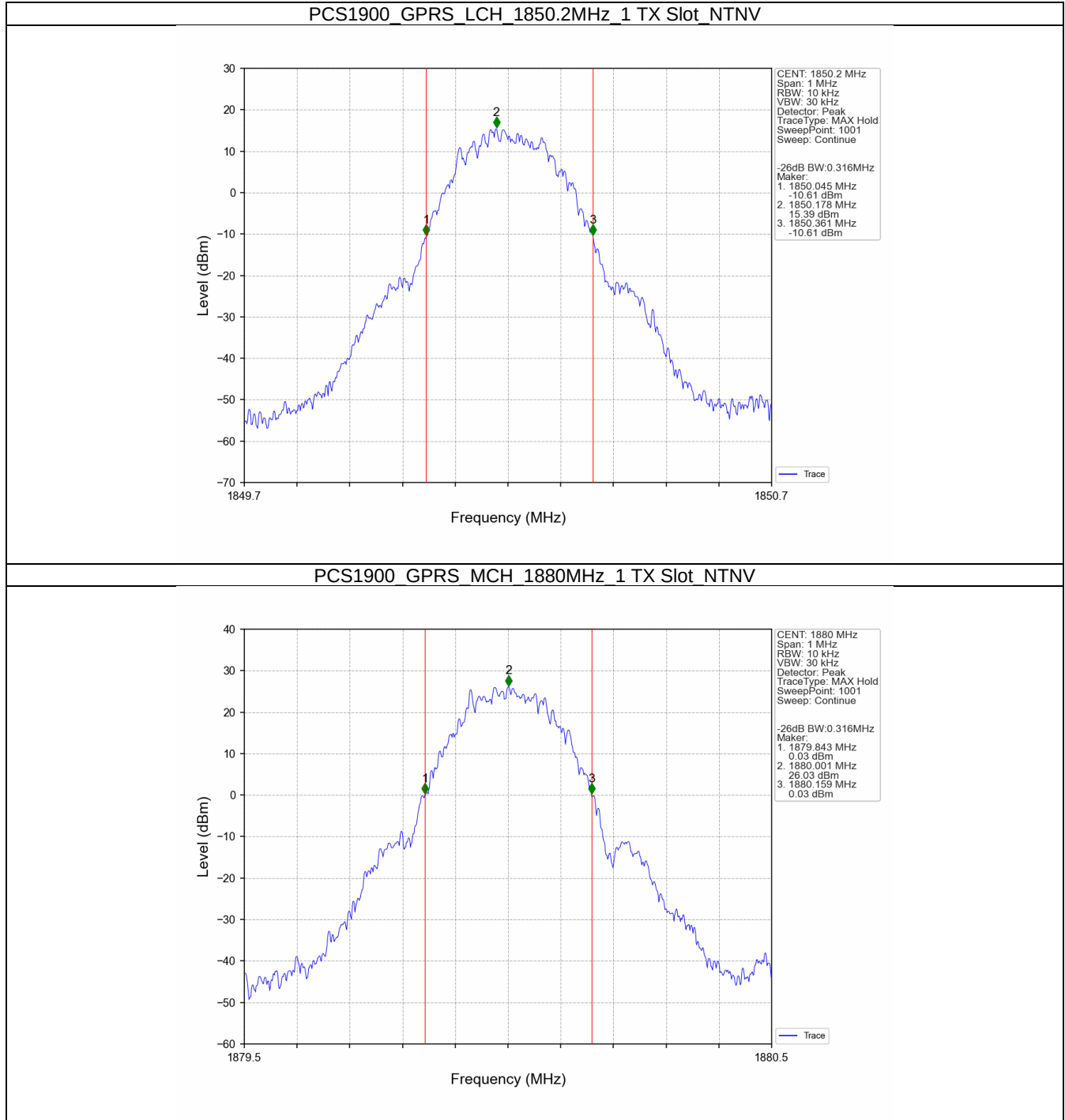
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



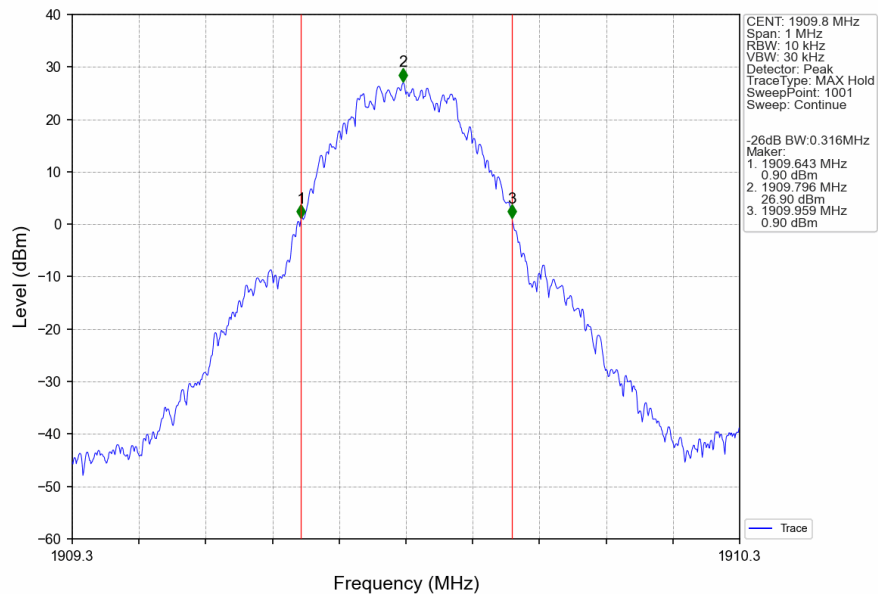
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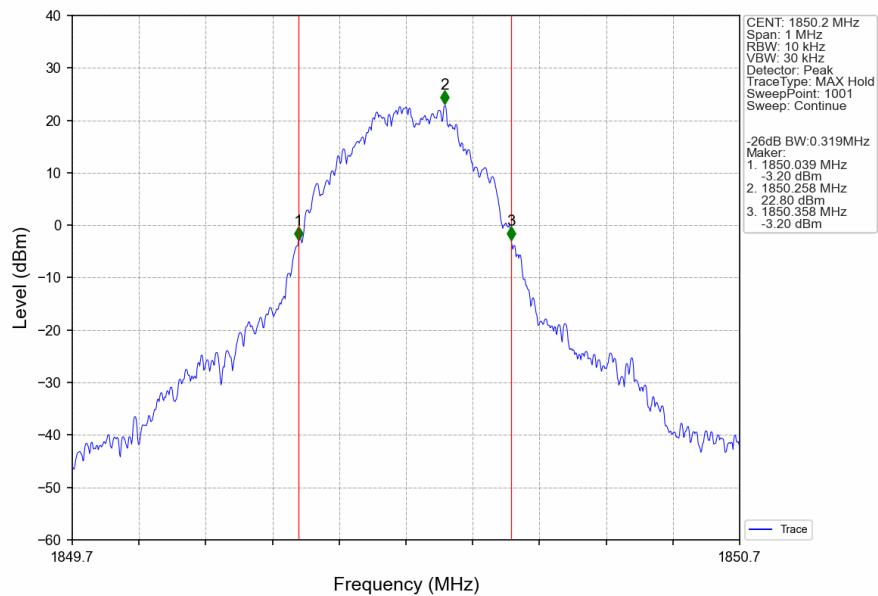
3.2.2 PCS1900_XDB



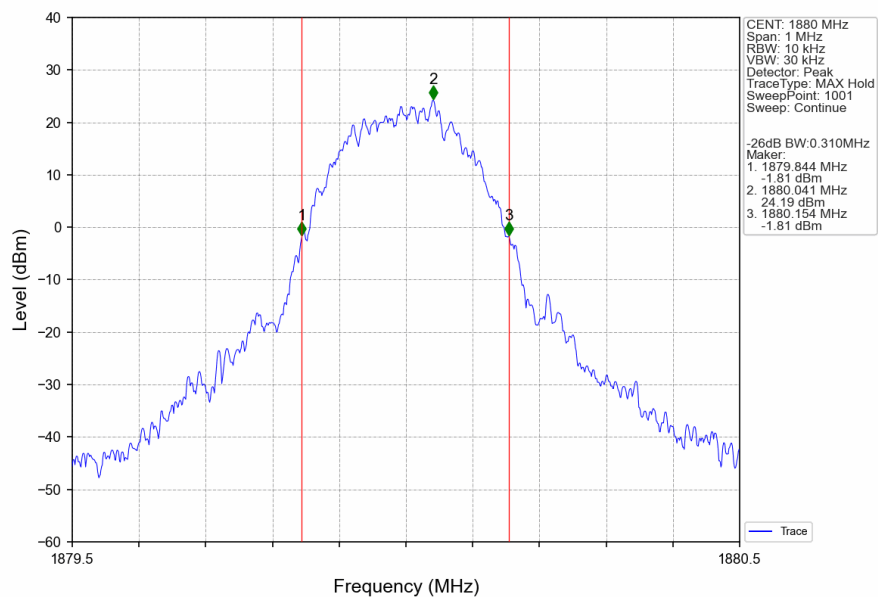
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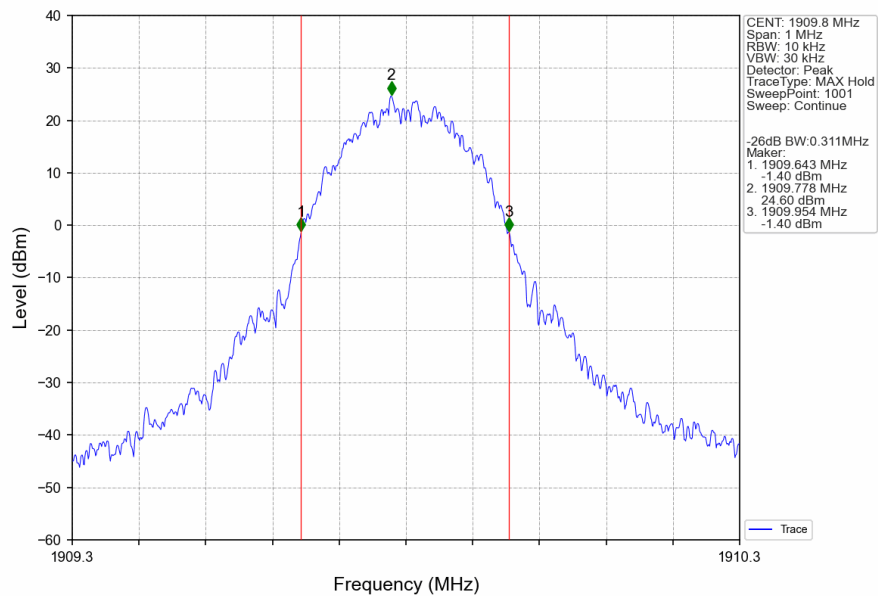
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

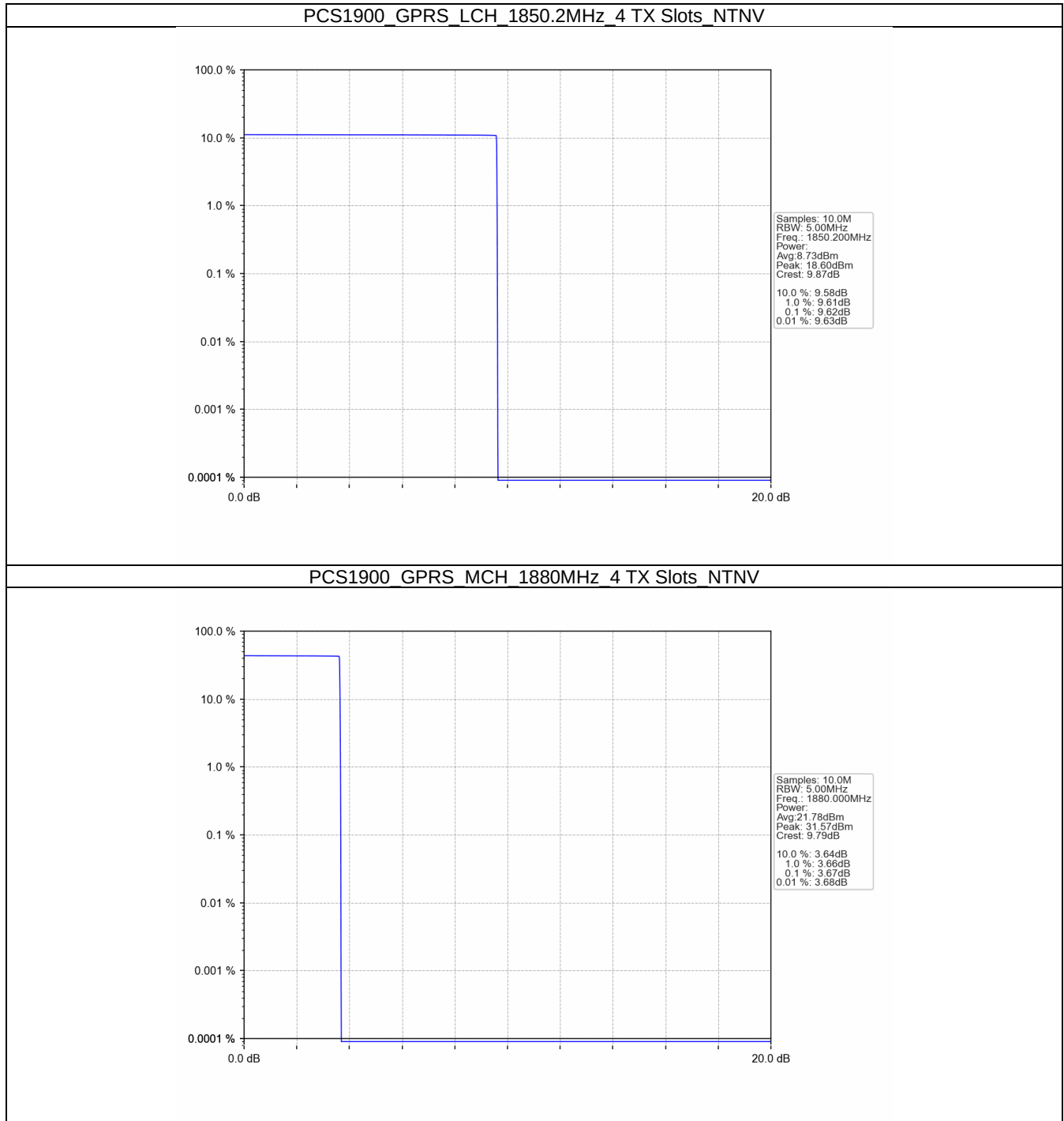
4.1 Test Result

4.1.1 PCS1900

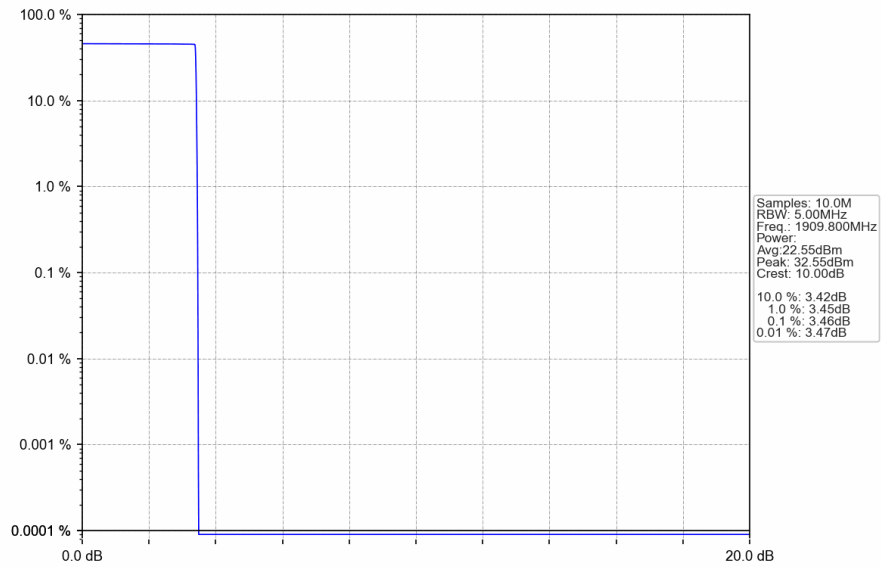
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.62	<=13	Pass
			1880	3.67	<=13	Pass
			1909.8	3.46	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.96	<=13	Pass
			1880	7.38	<=13	Pass
			1909.8	8.29	<=13	Pass

4.2 Test Graph

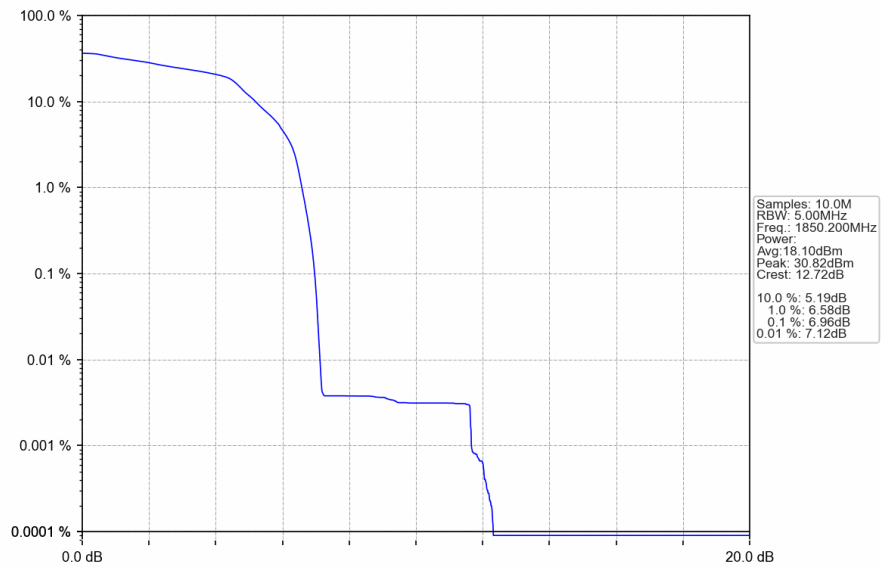
4.2.1 PCS1900



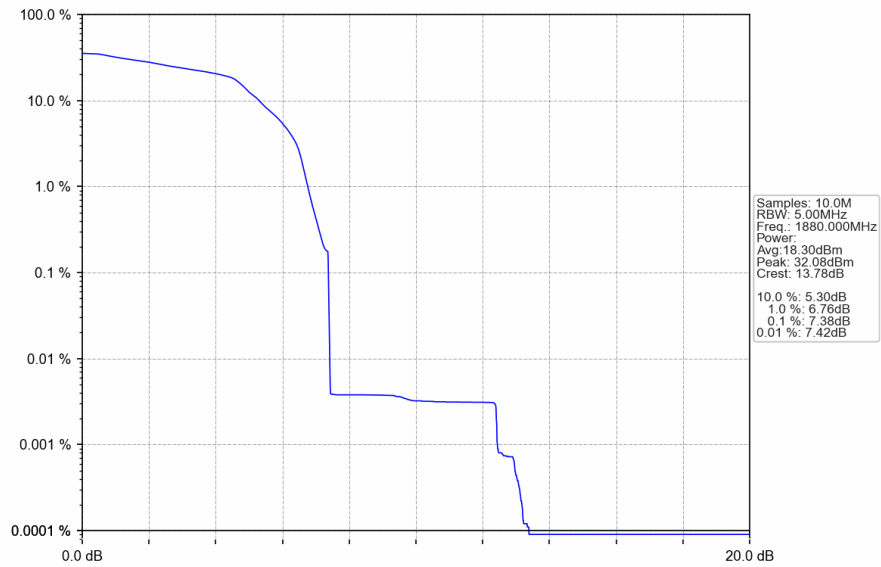
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



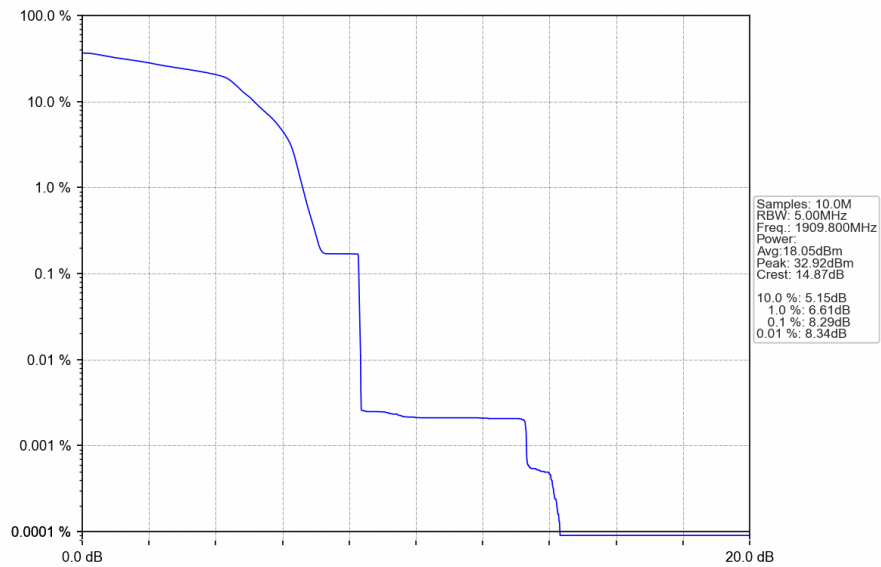
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

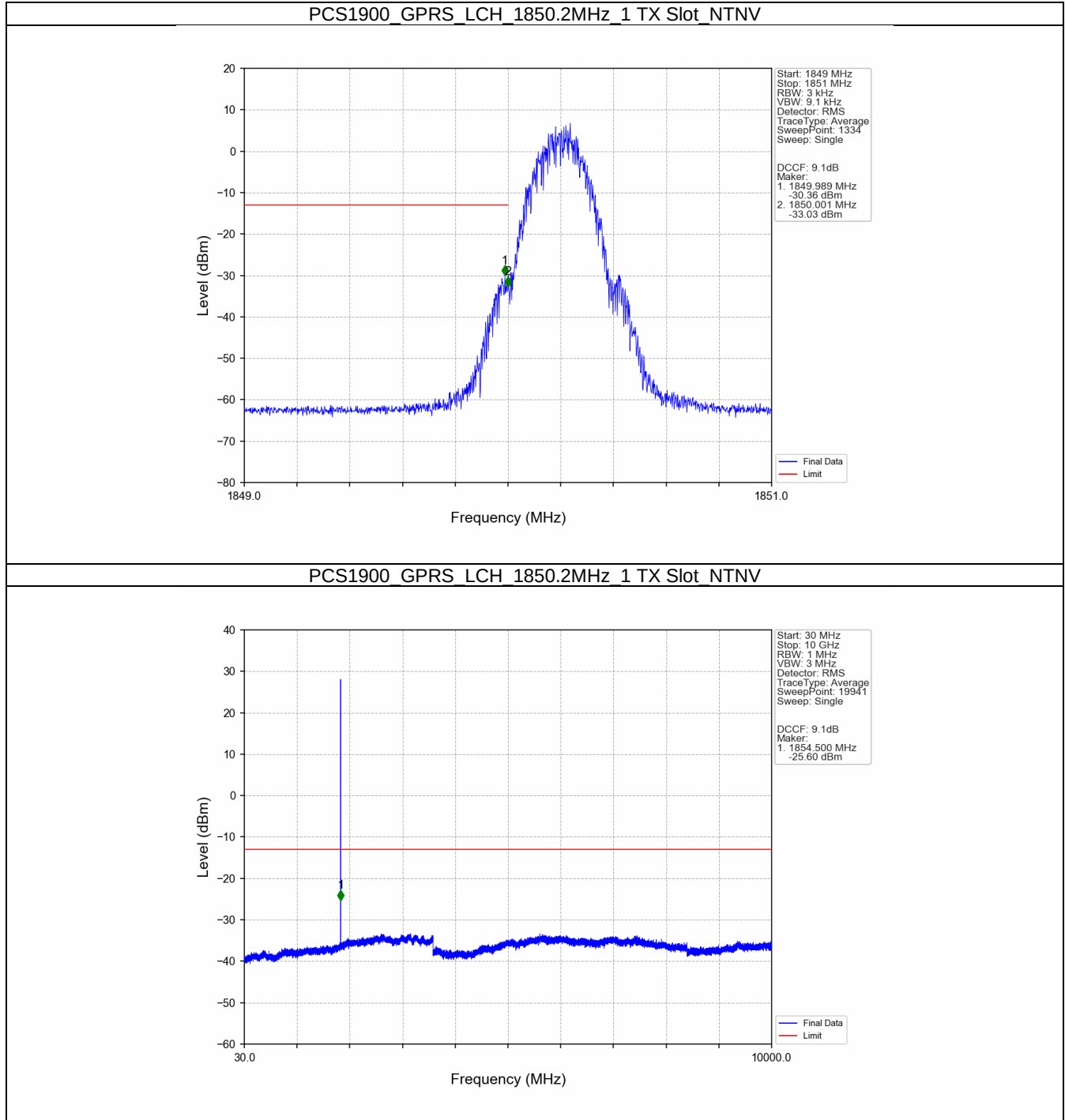
5.1 Test Result

5.1.1 PCS1900

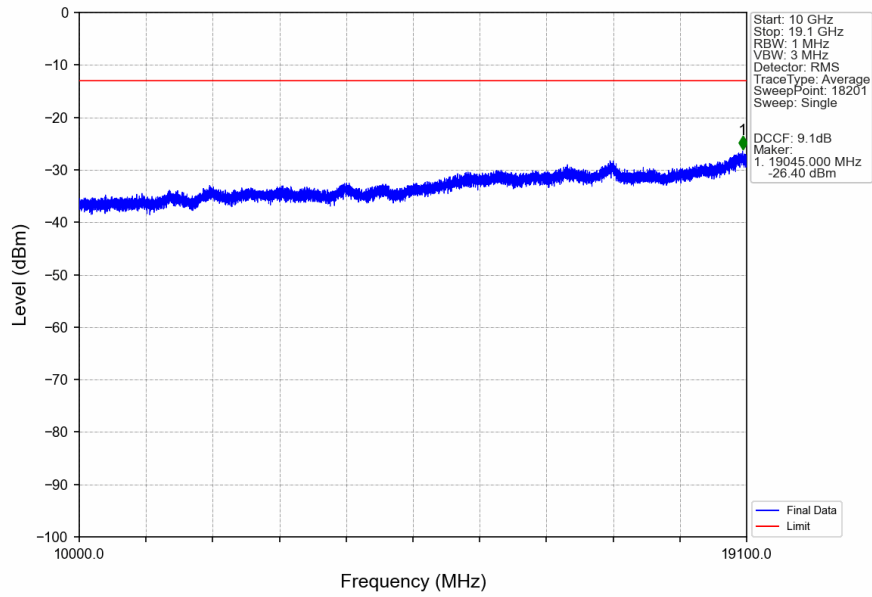
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph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

5.2 Test Graph

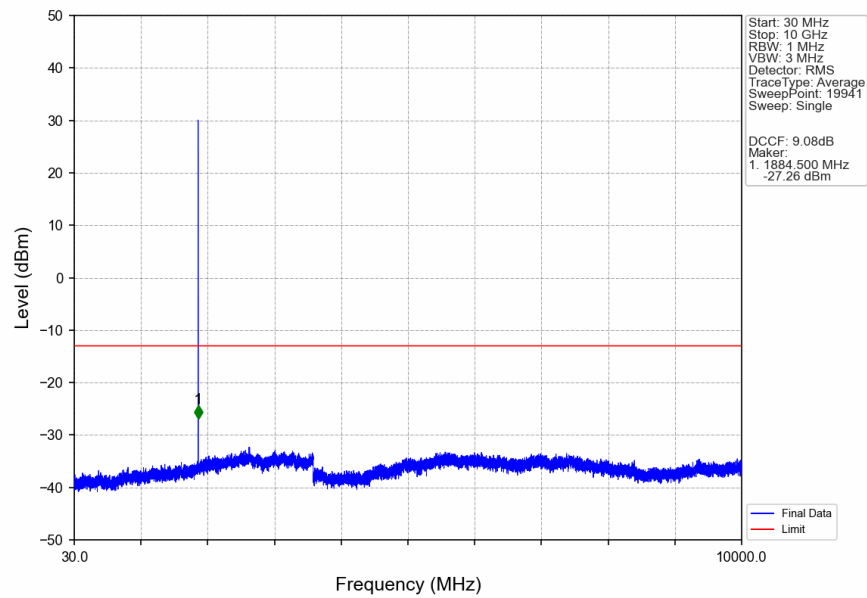
5.2.1 PCS1900



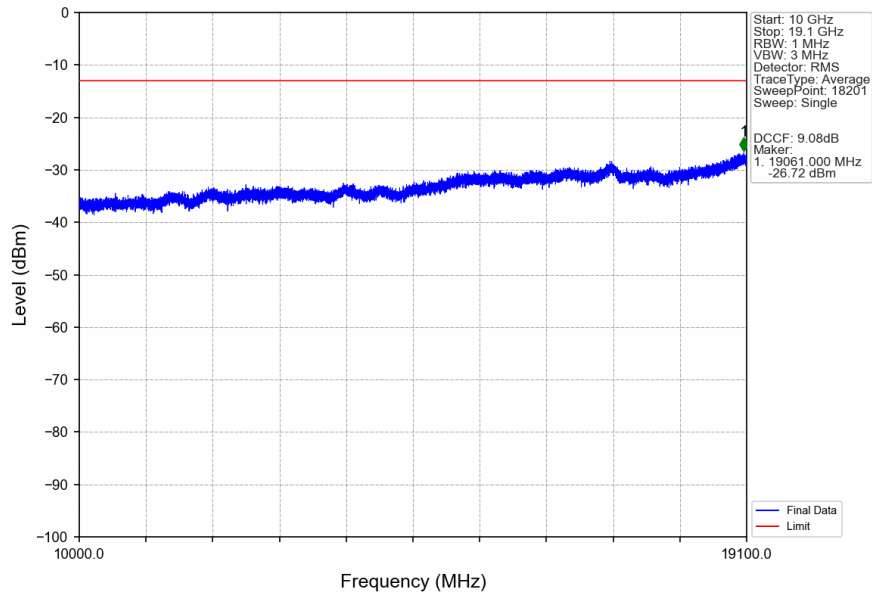
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



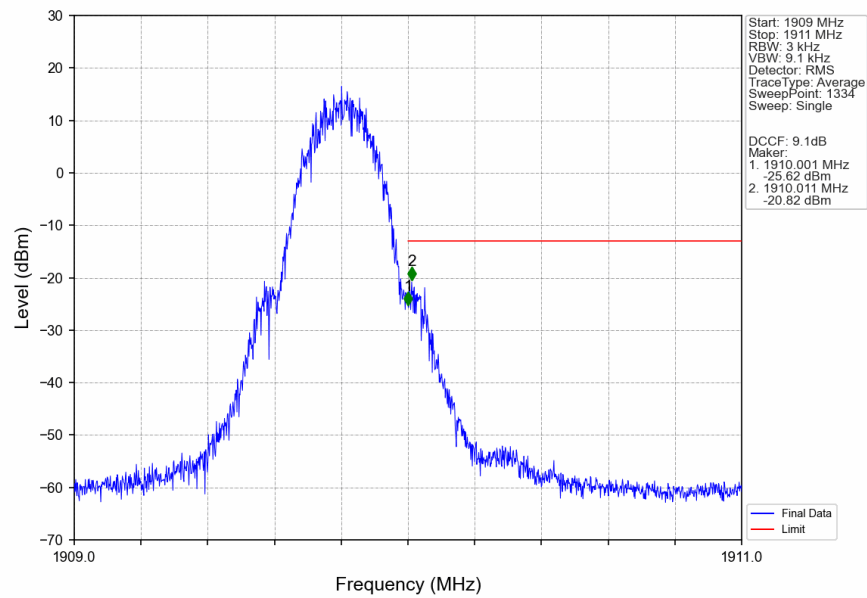
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



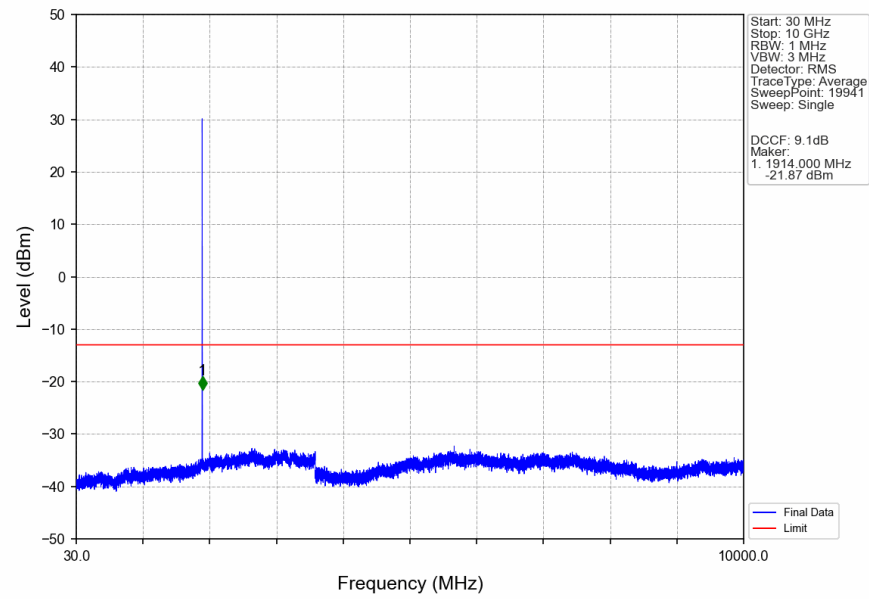
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



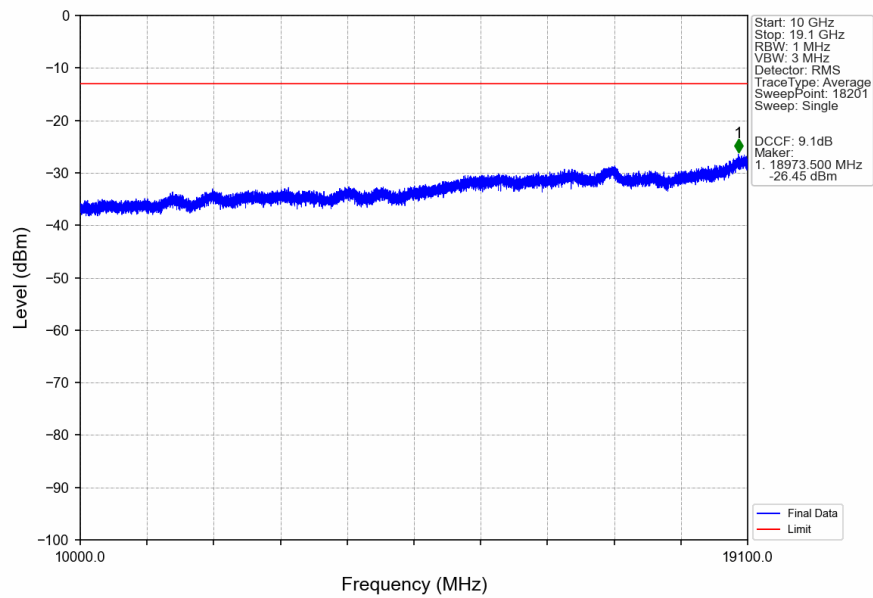
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



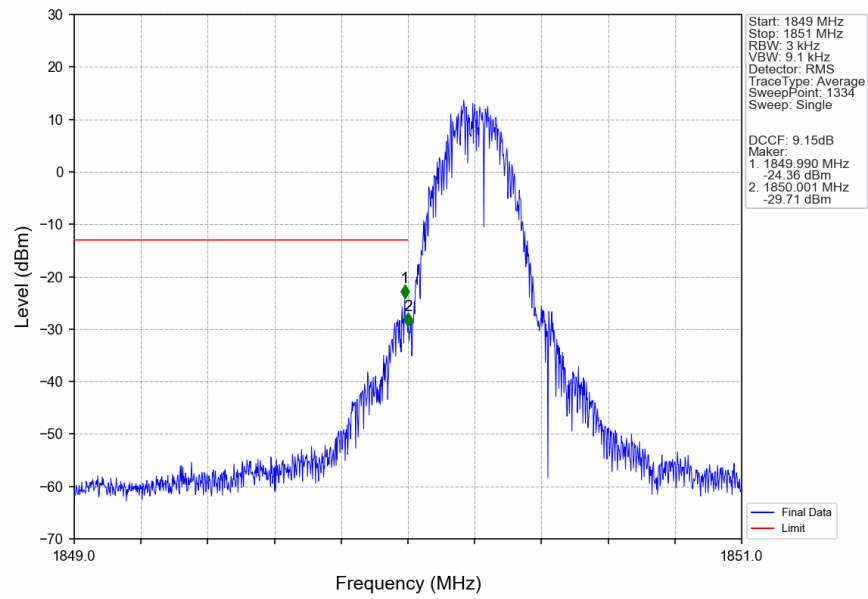
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



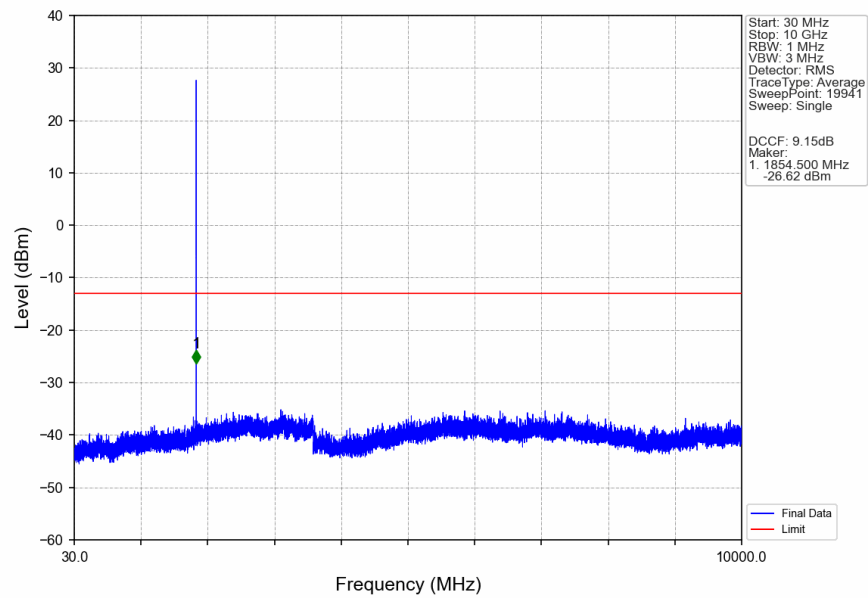
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



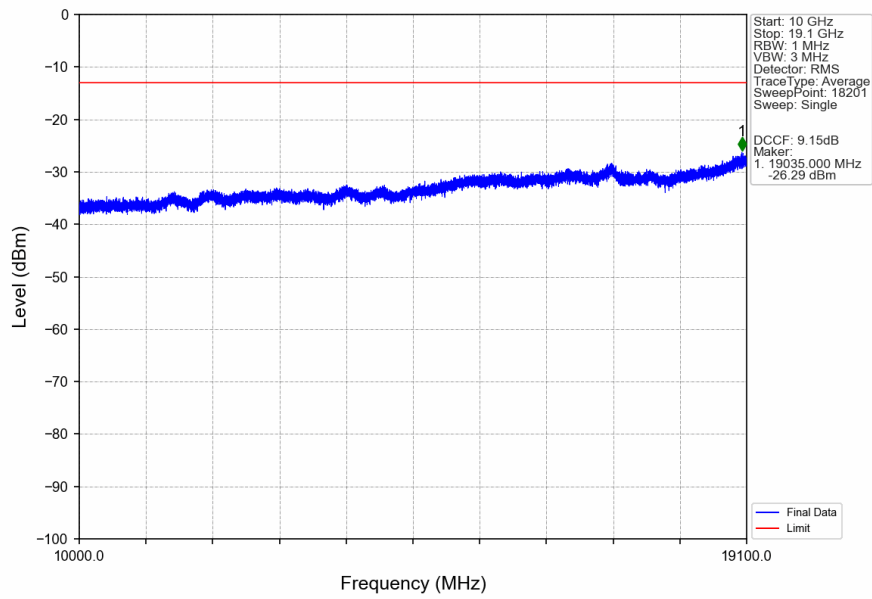
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



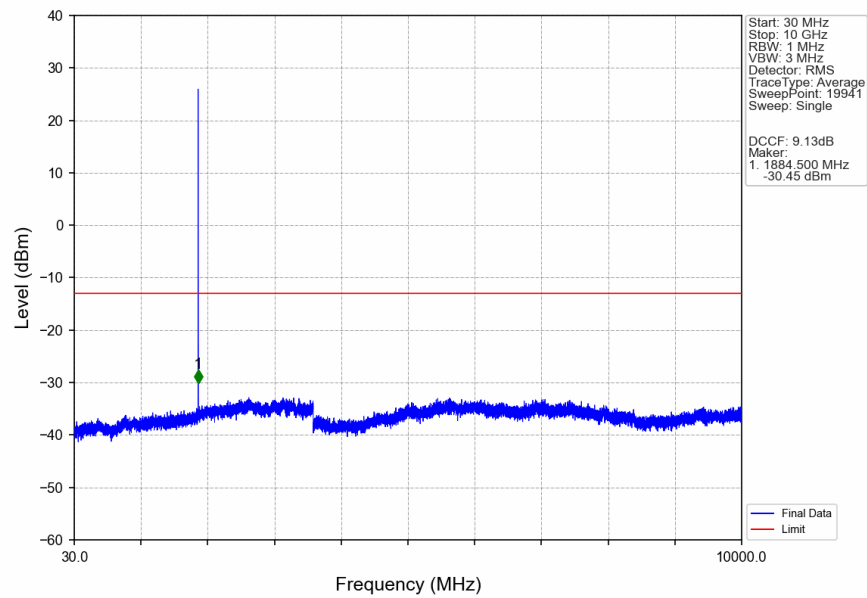
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



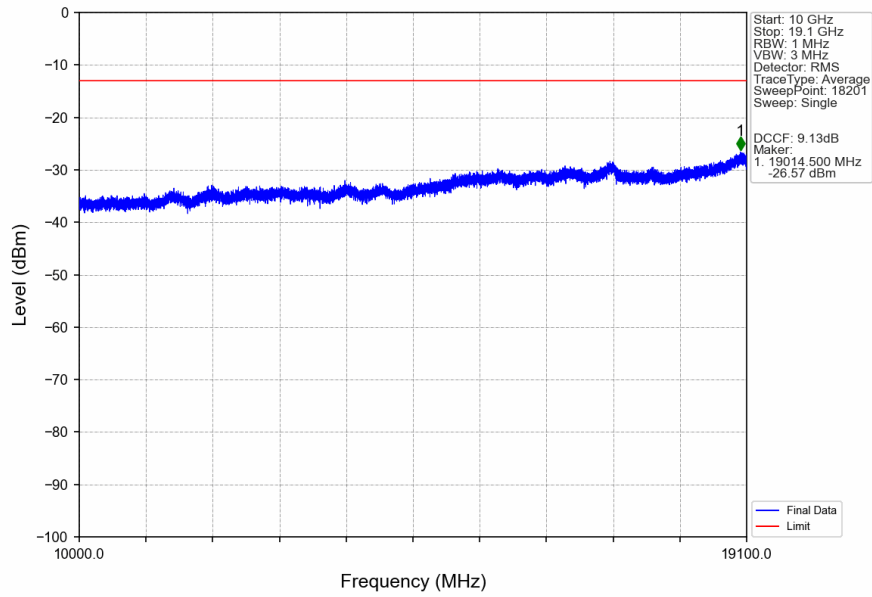
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



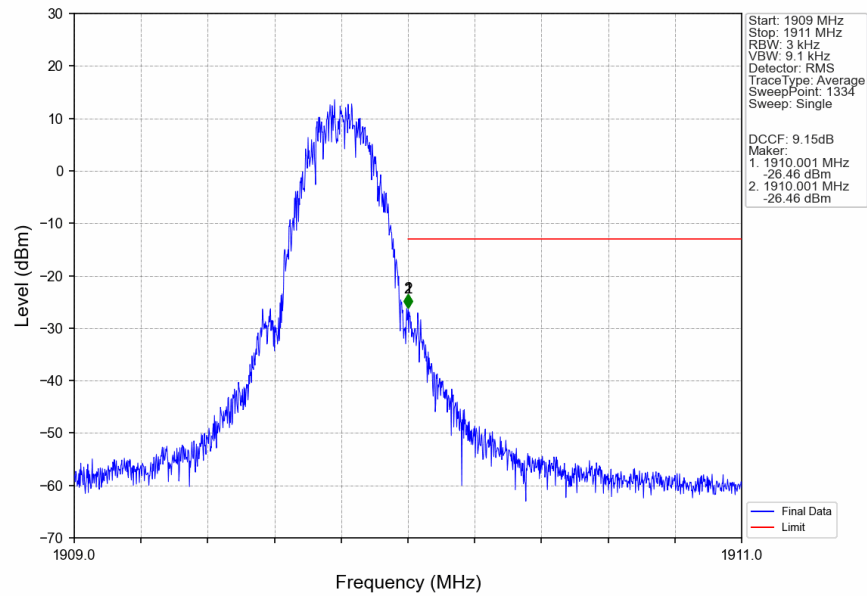
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



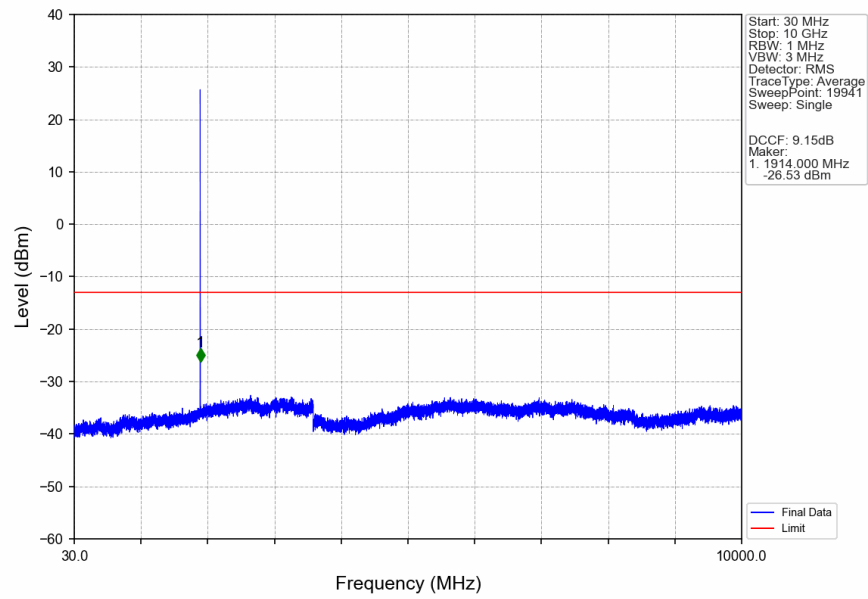
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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

