

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	29.47	2.67	32.14	<=33.01	Pass
		2 TX Slots	1850.2	27.59	2.67	30.26	<=33.01	Pass
		3 TX Slots	1850.2	25.83	2.67	28.50	<=33.01	Pass
		4 TX Slots	1850.2	23.93	2.67	26.60	<=33.01	Pass
		1 TX Slot	1880	29.22	2.67	31.89	<=33.01	Pass
		2 TX Slots	1880	26.89	2.67	29.56	<=33.01	Pass
		3 TX Slots	1880	25.40	2.67	28.07	<=33.01	Pass
		4 TX Slots	1880	23.23	2.67	25.90	<=33.01	Pass
		1 TX Slot	1909.8	28.68	2.67	31.35	<=33.01	Pass
		2 TX Slots	1909.8	26.21	2.67	28.88	<=33.01	Pass
		3 TX Slots	1909.8	24.68	2.67	27.35	<=33.01	Pass
		4 TX Slots	1909.8	22.50	2.67	25.17	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	23.83	2.67	26.50	<=33.01	Pass
		2 TX Slots	1850.2	22.44	2.67	25.11	<=33.01	Pass
		3 TX Slots	1850.2	21.22	2.67	23.89	<=33.01	Pass
		4 TX Slots	1850.2	18.30	2.67	20.97	<=33.01	Pass
		1 TX Slot	1880	23.93	2.67	26.60	<=33.01	Pass
		2 TX Slots	1880	22.73	2.67	25.40	<=33.01	Pass
		3 TX Slots	1880	20.58	2.67	23.25	<=33.01	Pass
		4 TX Slots	1880	18.22	2.67	20.89	<=33.01	Pass
		1 TX Slot	1909.8	23.50	2.67	26.17	<=33.01	Pass
		2 TX Slots	1909.8	22.39	2.67	25.06	<=33.01	Pass
		3 TX Slots	1909.8	20.66	2.67	23.33	<=33.01	Pass
		4 TX Slots	1909.8	17.87	2.67	20.54	<=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	-7.490	-0.0040	-2.5 to 2.5	Pass
			NV	-7.490	-0.0040	-2.5 to 2.5	Pass
			HV	-6.845	-0.0037	-2.5 to 2.5	Pass
		-30	NV	-2.195	-0.0012	-2.5 to 2.5	Pass
		-20	NV	0.032	0.0000	-2.5 to 2.5	Pass
		-10	NV	-3.035	-0.0016	-2.5 to 2.5	Pass
		0	NV	0.258	0.0001	-2.5 to 2.5	Pass
		10	NV	-7.038	-0.0038	-2.5 to 2.5	Pass
		30	NV	1.001	0.0005	-2.5 to 2.5	Pass
		40	NV	-1.098	-0.0006	-2.5 to 2.5	Pass
		50	NV	4.294	0.0023	-2.5 to 2.5	Pass
	1880	20	LV	3.971	0.0021	-2.5 to 2.5	Pass
			NV	21.147	0.0112	-2.5 to 2.5	Pass
			HV	2.744	0.0015	-2.5 to 2.5	Pass
		-30	NV	5.715	0.0030	-2.5 to 2.5	Pass
		-20	NV	12.075	0.0064	-2.5 to 2.5	Pass
		-10	NV	8.782	0.0047	-2.5 to 2.5	Pass
		0	NV	-11.752	-0.0063	-2.5 to 2.5	Pass
		10	NV	-8.975	-0.0048	-2.5 to 2.5	Pass
		30	NV	-15.659	-0.0083	-2.5 to 2.5	Pass
		40	NV	2.970	0.0016	-2.5 to 2.5	Pass
		50	NV	-6.231	-0.0033	-2.5 to 2.5	Pass
	1909.8	20	LV	-9.105	-0.0048	-2.5 to 2.5	Pass
			NV	6.489	0.0034	-2.5 to 2.5	Pass
			HV	1.808	0.0009	-2.5 to 2.5	Pass
		-30	NV	7.813	0.0041	-2.5 to 2.5	Pass
		-20	NV	10.073	0.0053	-2.5 to 2.5	Pass
		-10	NV	2.325	0.0012	-2.5 to 2.5	Pass
		0	NV	5.585	0.0029	-2.5 to 2.5	Pass
		10	NV	3.293	0.0017	-2.5 to 2.5	Pass
		30	NV	-1.195	-0.0006	-2.5 to 2.5	Pass
		40	NV	6.812	0.0036	-2.5 to 2.5	Pass
		50	NV	6.037	0.0032	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	-6.522	-0.0035	-2.5 to 2.5	Pass
			NV	3.907	0.0021	-2.5 to 2.5	Pass
			HV	-0.839	-0.0005	-2.5 to 2.5	Pass
		-30	NV	0.613	0.0003	-2.5 to 2.5	Pass
		-20	NV	5.553	0.0030	-2.5 to 2.5	Pass
		-10	NV	4.972	0.0027	-2.5 to 2.5	Pass
		0	NV	-14.335	-0.0077	-2.5 to 2.5	Pass
		10	NV	16.046	0.0087	-2.5 to 2.5	Pass
		30	NV	6.780	0.0037	-2.5 to 2.5	Pass
		40	NV	-6.296	-0.0034	-2.5 to 2.5	Pass
		50	NV	-6.328	-0.0034	-2.5 to 2.5	Pass
	1880	20	LV	2.357	0.0013	-2.5 to 2.5	Pass
			NV	9.169	0.0049	-2.5 to 2.5	Pass

			HV	-5.037	-0.0027	-2.5 to 2.5	Pass
		-30	NV	9.718	0.0052	-2.5 to 2.5	Pass
		-20	NV	-6.102	-0.0032	-2.5 to 2.5	Pass
		-10	NV	3.261	0.0017	-2.5 to 2.5	Pass
		0	NV	5.973	0.0032	-2.5 to 2.5	Pass
		10	NV	-5.973	-0.0032	-2.5 to 2.5	Pass
		30	NV	-0.549	-0.0003	-2.5 to 2.5	Pass
		40	NV	5.392	0.0029	-2.5 to 2.5	Pass
		50	NV	16.563	0.0088	-2.5 to 2.5	Pass
	1909.8	20	LV	-1.969	-0.0010	-2.5 to 2.5	Pass
			NV	-4.778	-0.0025	-2.5 to 2.5	Pass
			HV	-6.941	-0.0036	-2.5 to 2.5	Pass
		-30	NV	-5.166	-0.0027	-2.5 to 2.5	Pass
		-20	NV	-9.331	-0.0049	-2.5 to 2.5	Pass
		-10	NV	-4.907	-0.0026	-2.5 to 2.5	Pass
		0	NV	0.000	0.0000	-2.5 to 2.5	Pass
		10	NV	4.294	0.0022	-2.5 to 2.5	Pass
		30	NV	2.841	0.0015	-2.5 to 2.5	Pass
		40	NV	5.456	0.0029	-2.5 to 2.5	Pass
		50	NV	15.110	0.0079	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

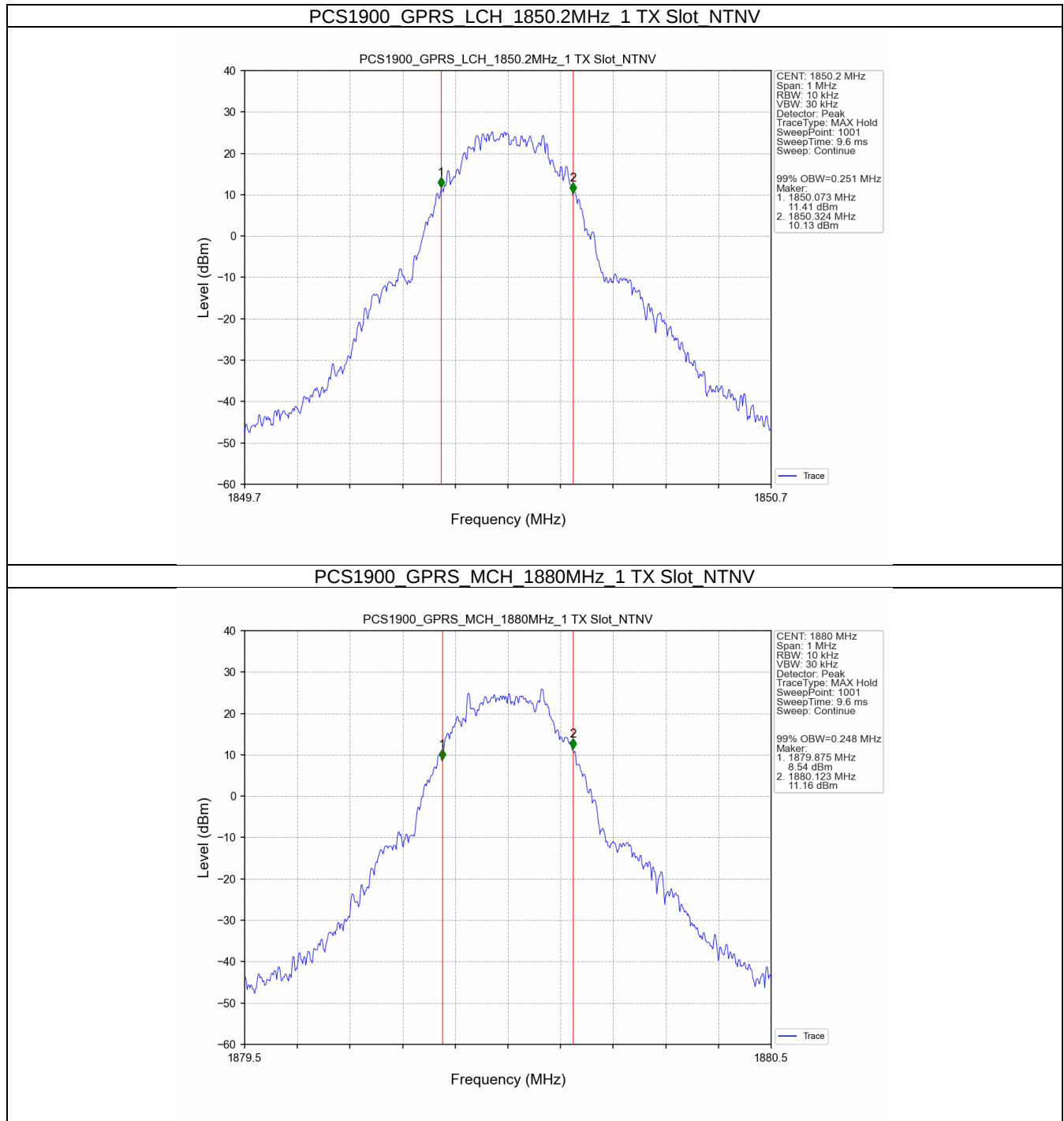
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.251	/	Pass
			1880	0.248	/	Pass
			1909.8	0.245	/	Pass
	EGPRS	1 TX Slot	1850.2	0.236	/	Pass
			1880	0.235	/	Pass
			1909.8	0.231	/	Pass

3.1.2 PCS1900_XDB

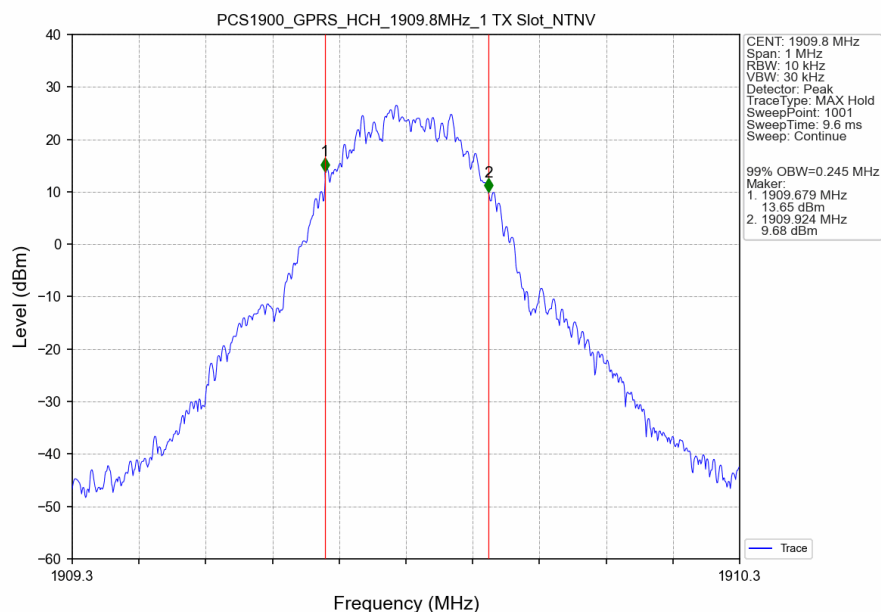
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.328	/	Pass
			1880	0.321	/	Pass
			1909.8	0.317	/	Pass
	EGPRS	1 TX Slot	1850.2	0.286	/	Pass
			1880	0.294	/	Pass
			1909.8	0.284	/	Pass

3.2 Test Graph

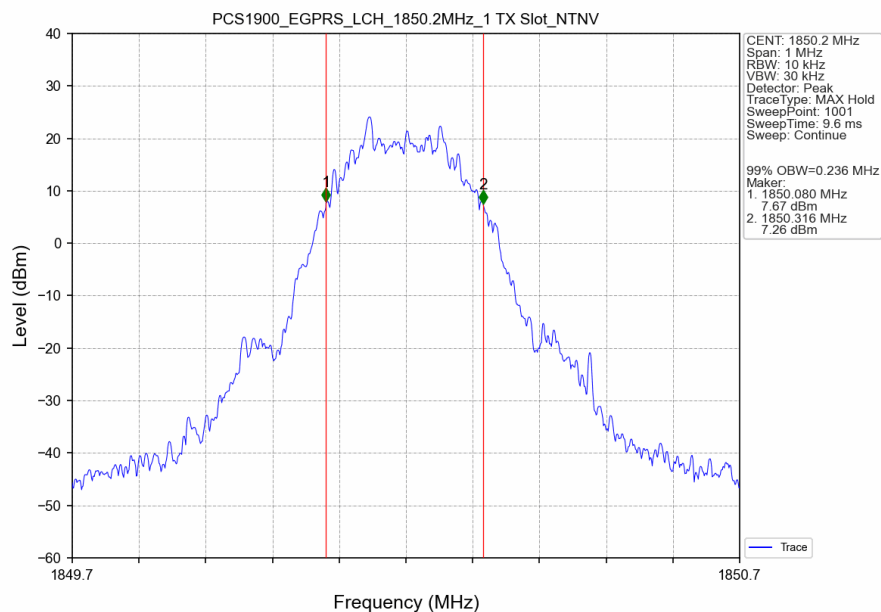
3.2.1 PCS1900_OBW



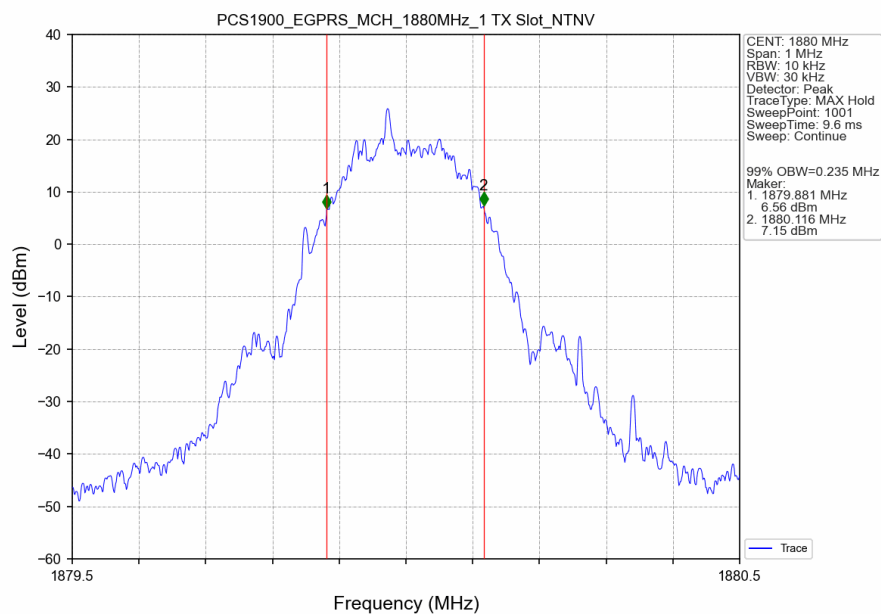
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



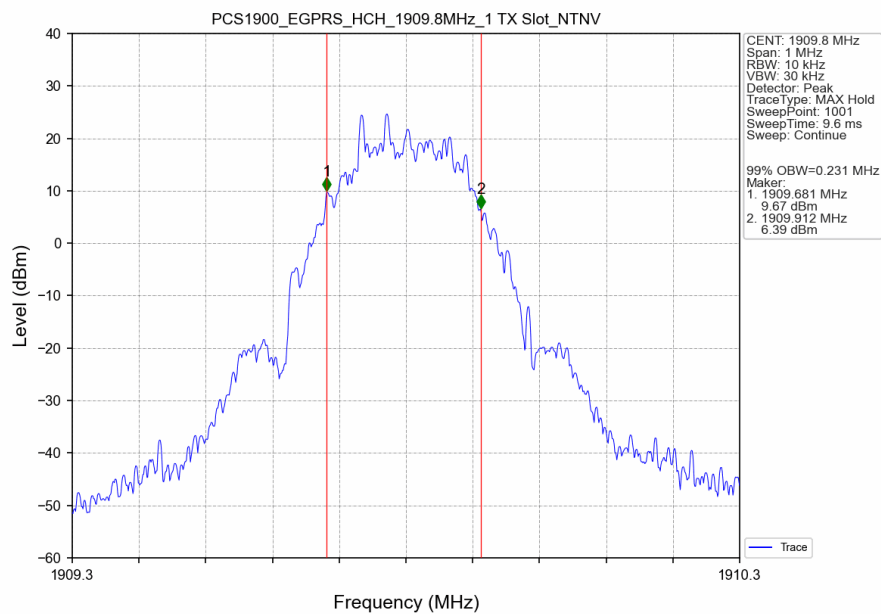
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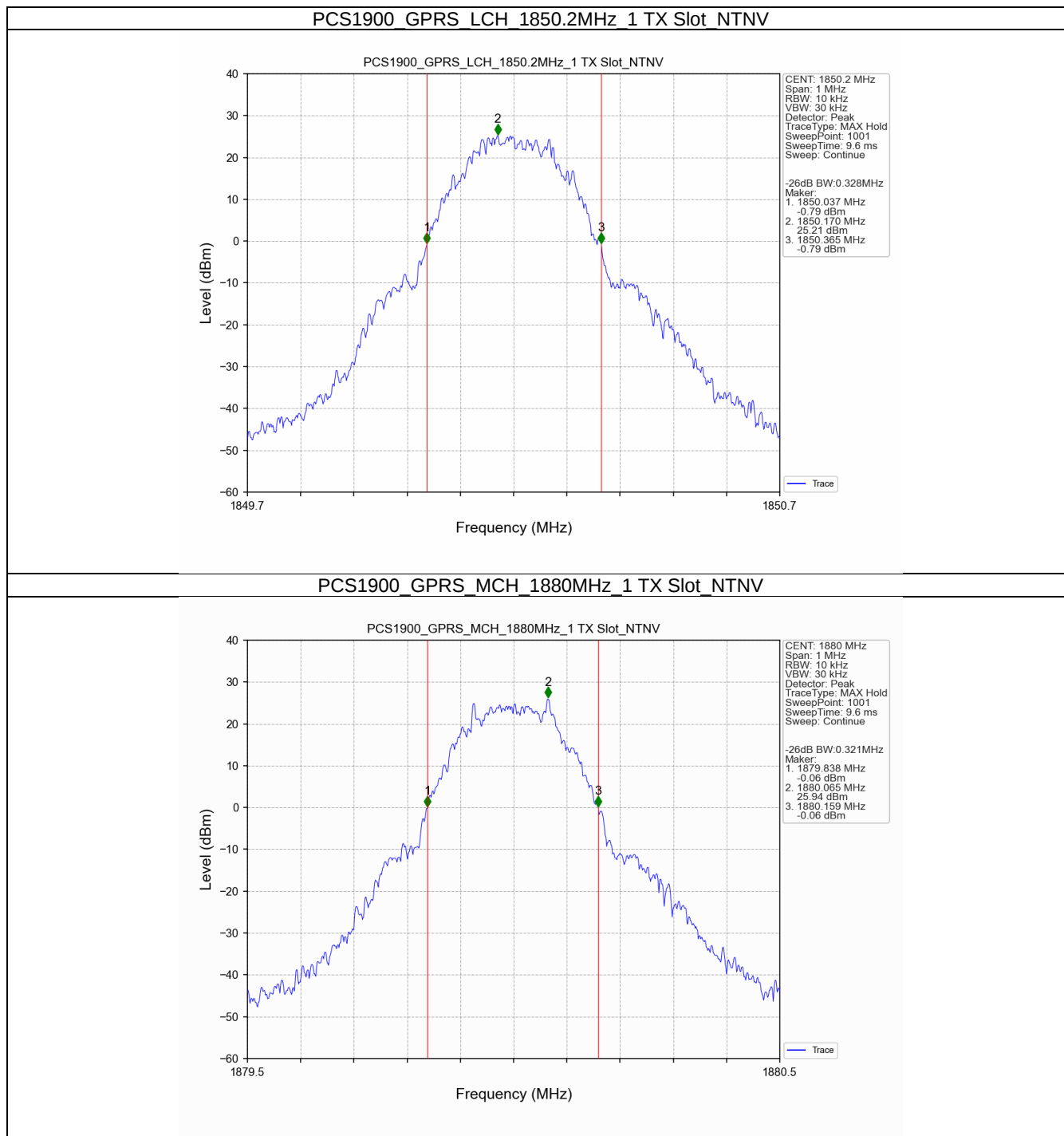
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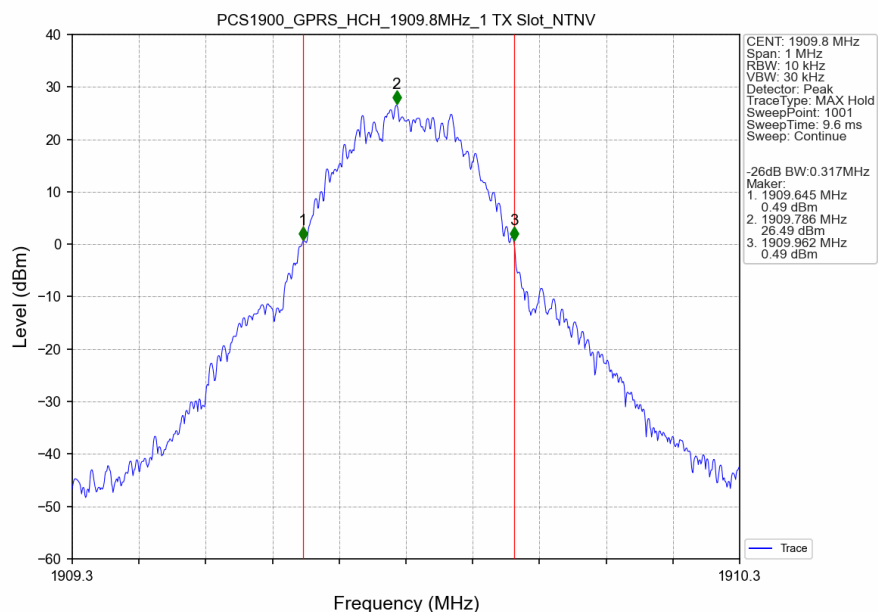
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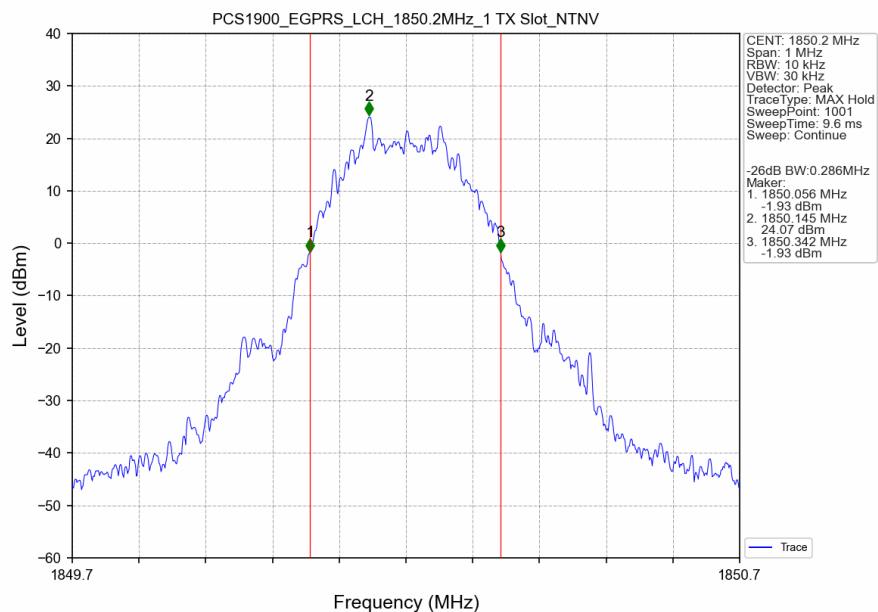
3.2.2 PCS1900_XDB



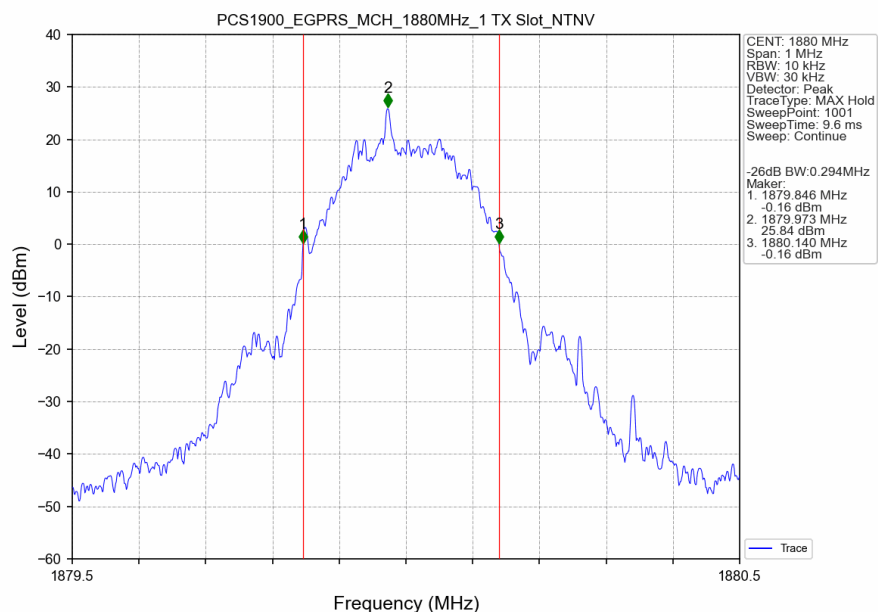
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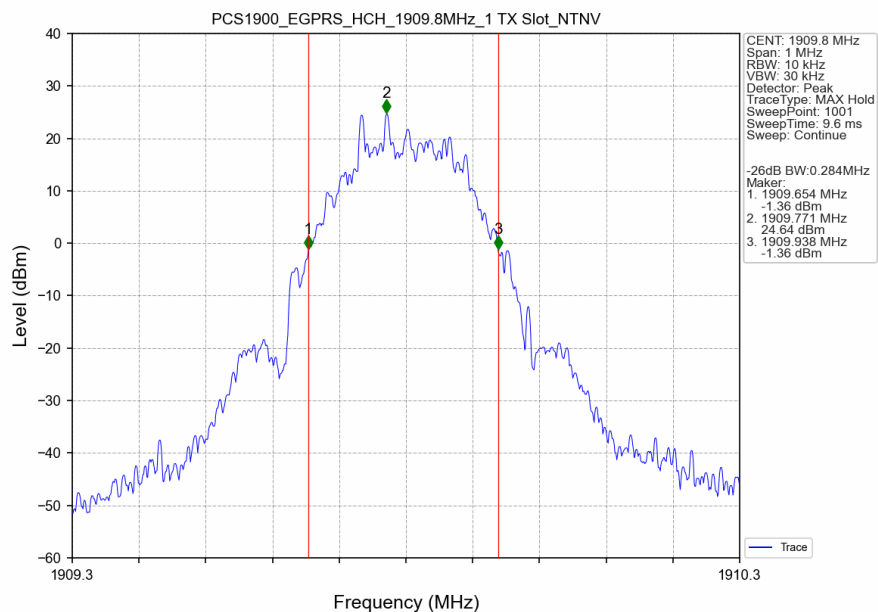
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV





4. Peak-Average Ratio

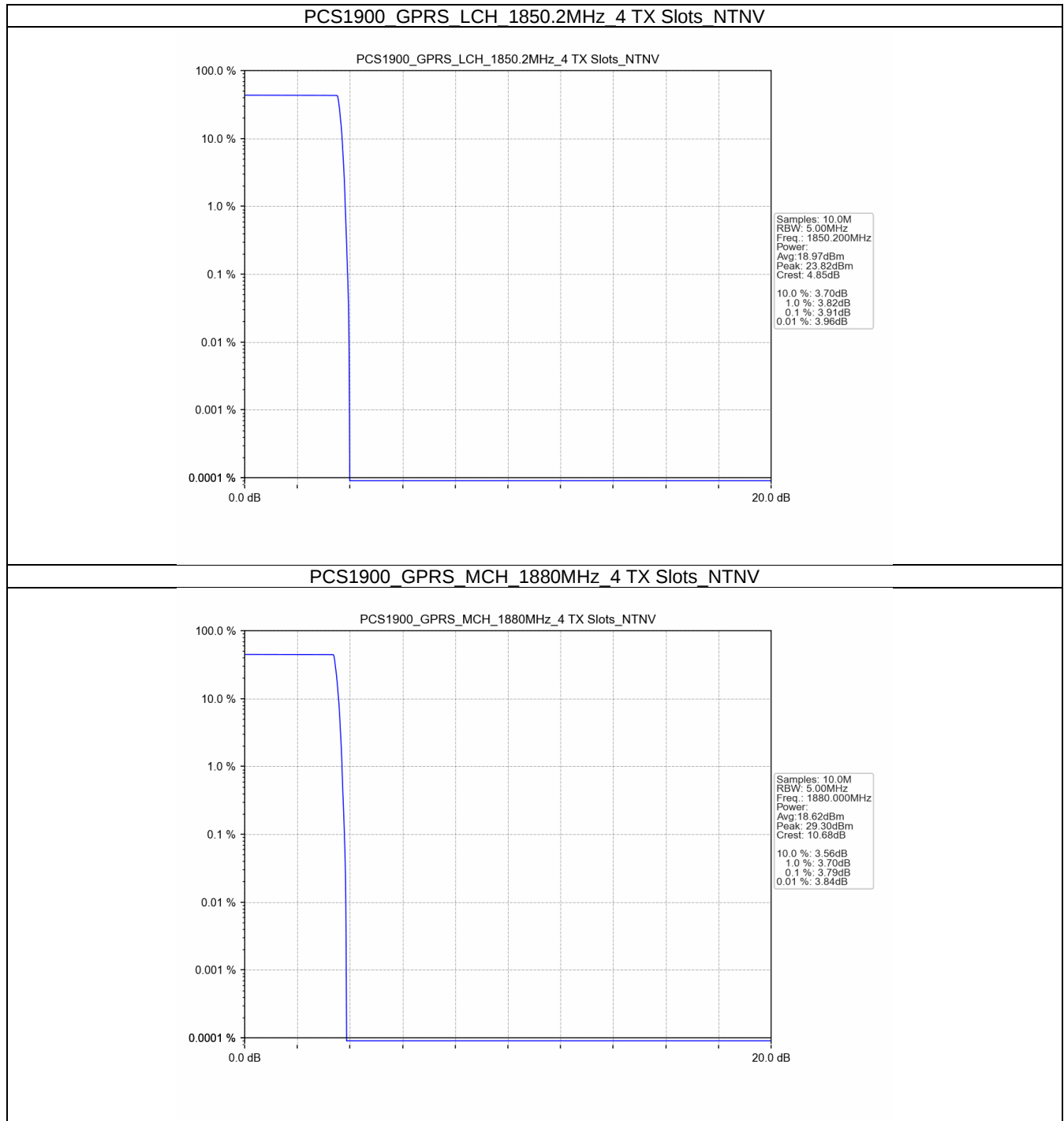
4.1 Test Result

4.1.1 PCS1900

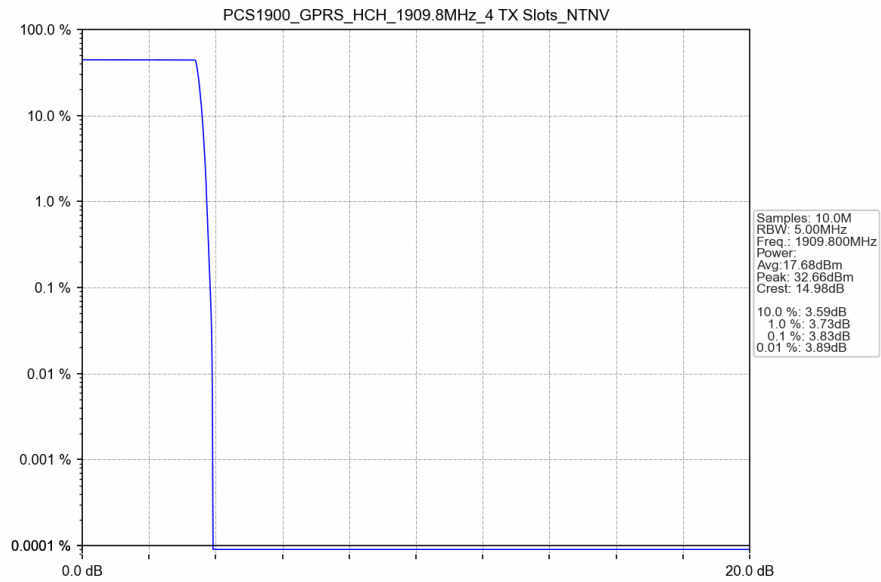
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	3.91	<=13	Pass
			1880	3.79	<=13	Pass
			1909.8	3.83	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.33	<=13	Pass
			1880	6.82	<=13	Pass
			1909.8	6.83	<=13	Pass

4.2 Test Graph

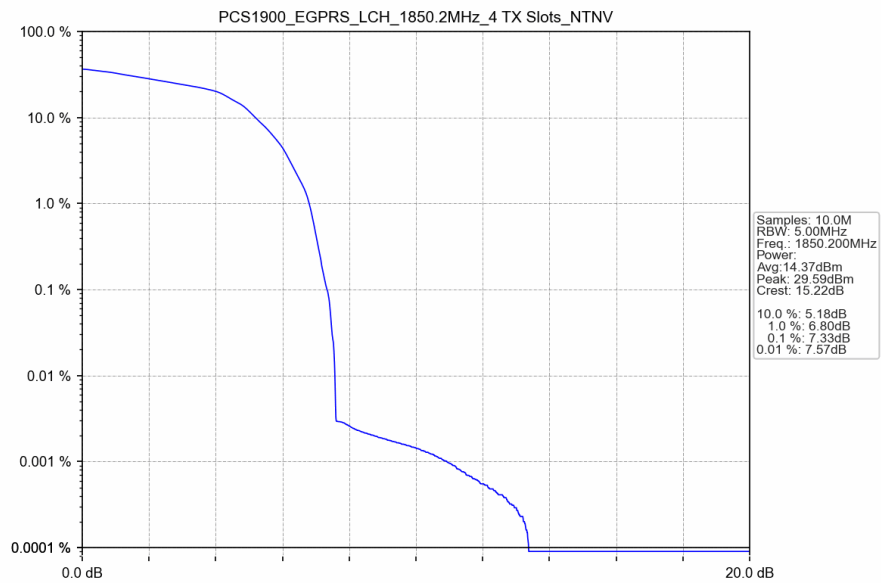
4.2.1 PCS1900



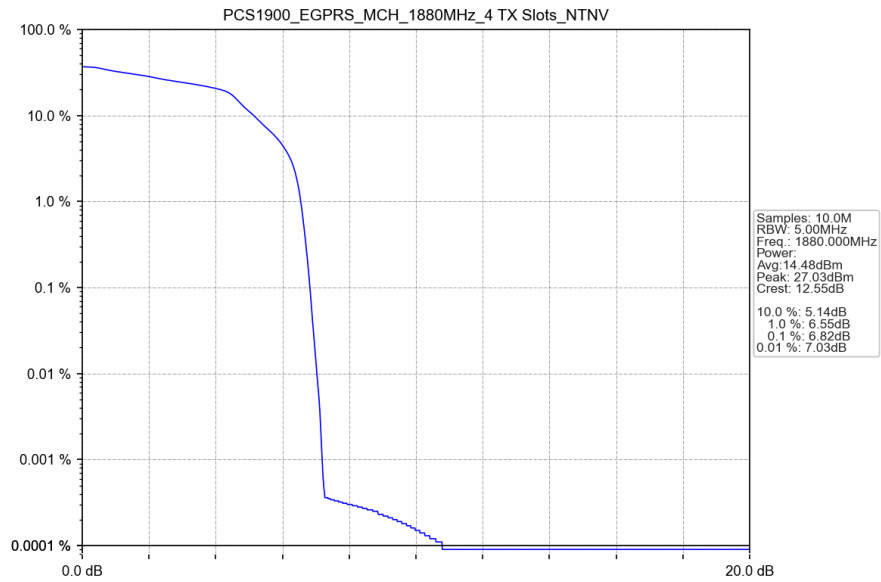
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



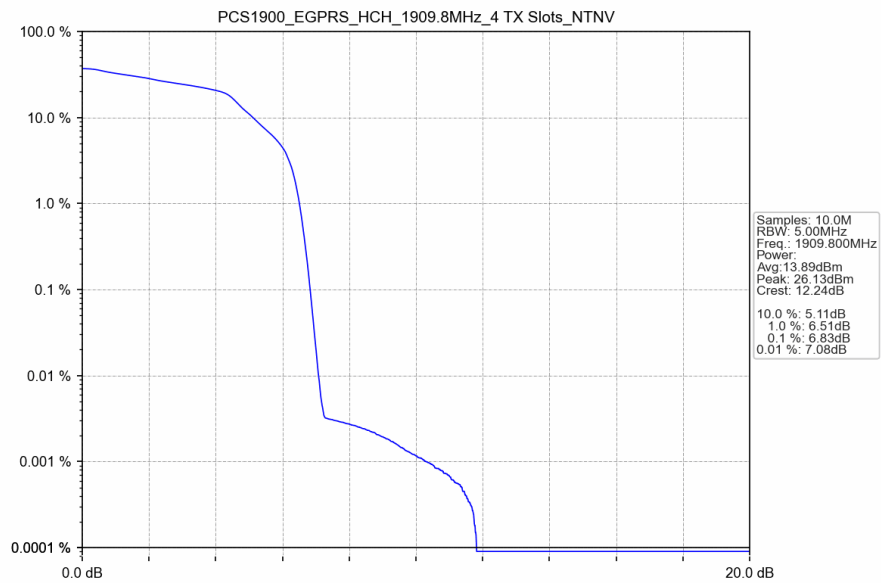
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

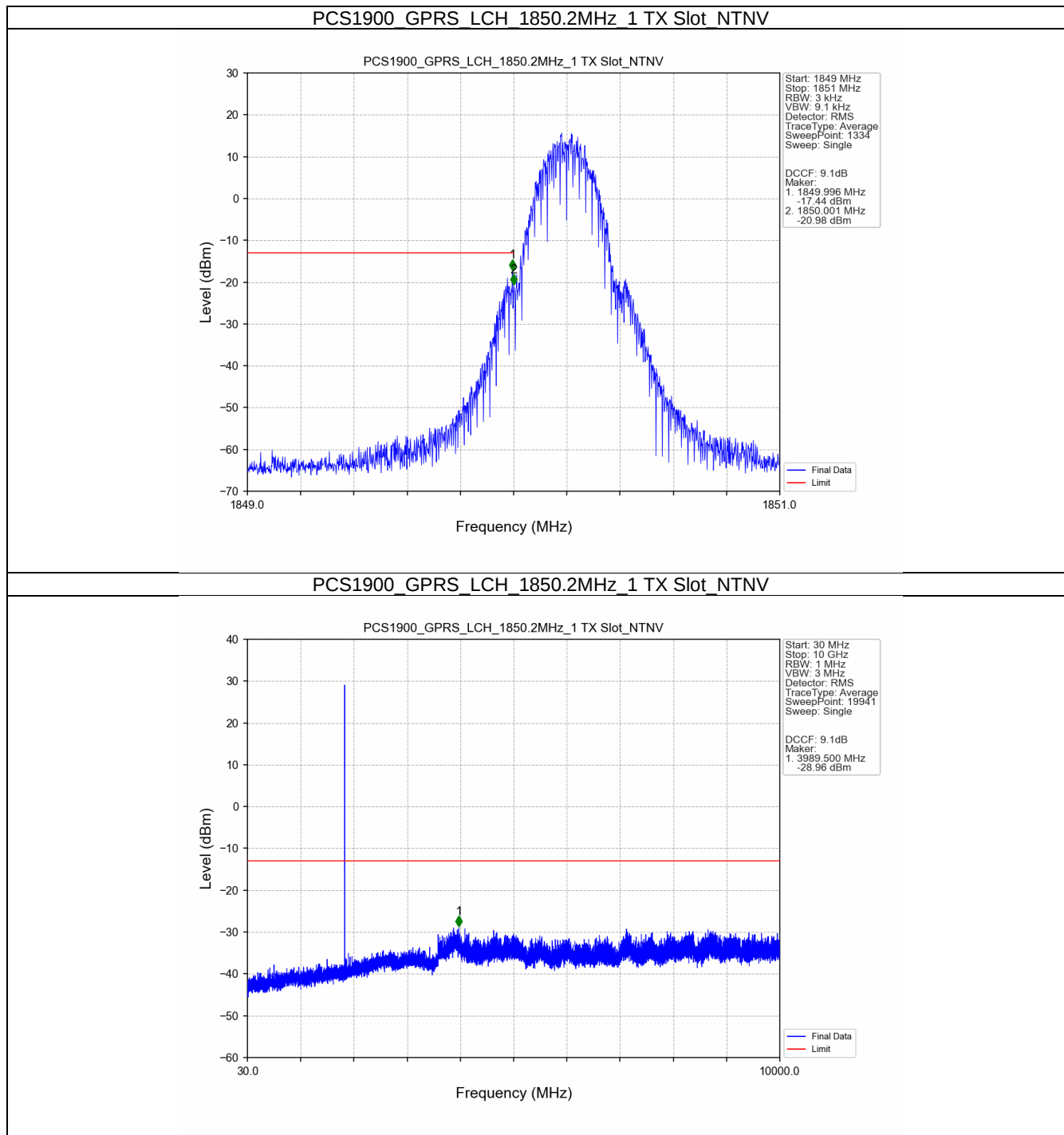
5.1 Test Result

5.1.1 PCS1900

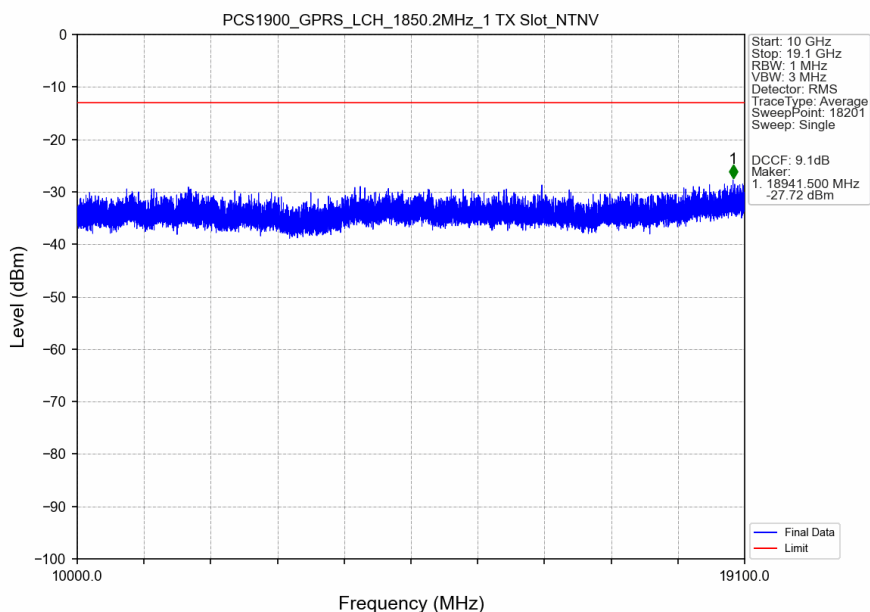
Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8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

5.2 Test Graph

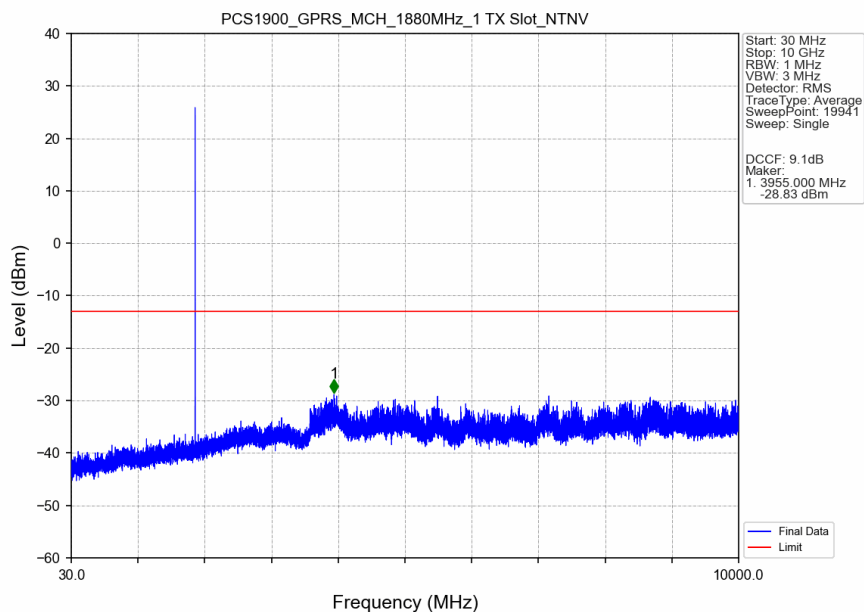
5.2.1 PCS1900



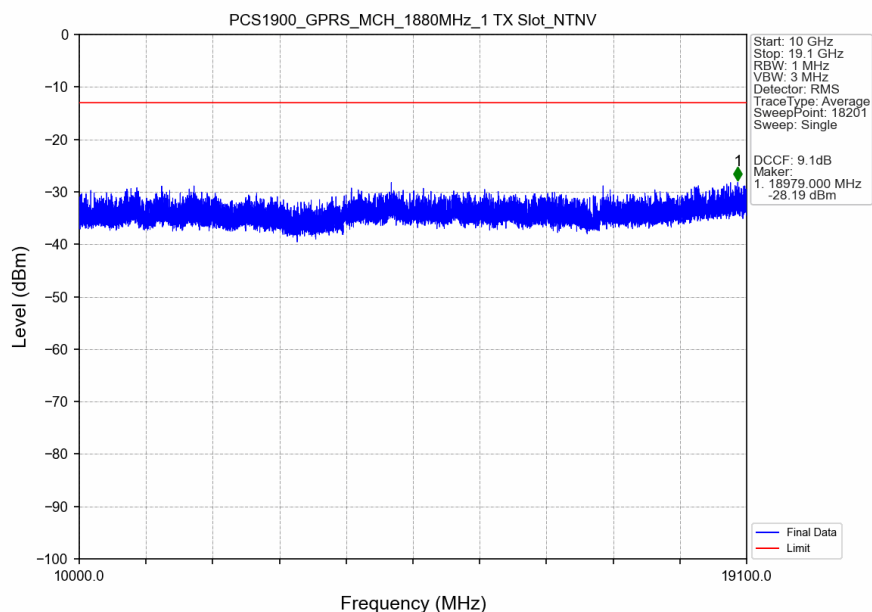
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



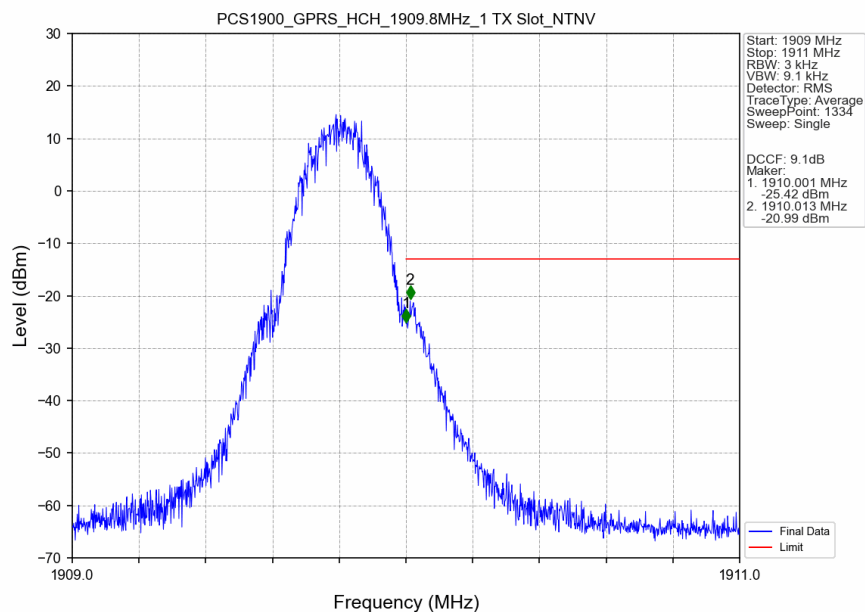
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



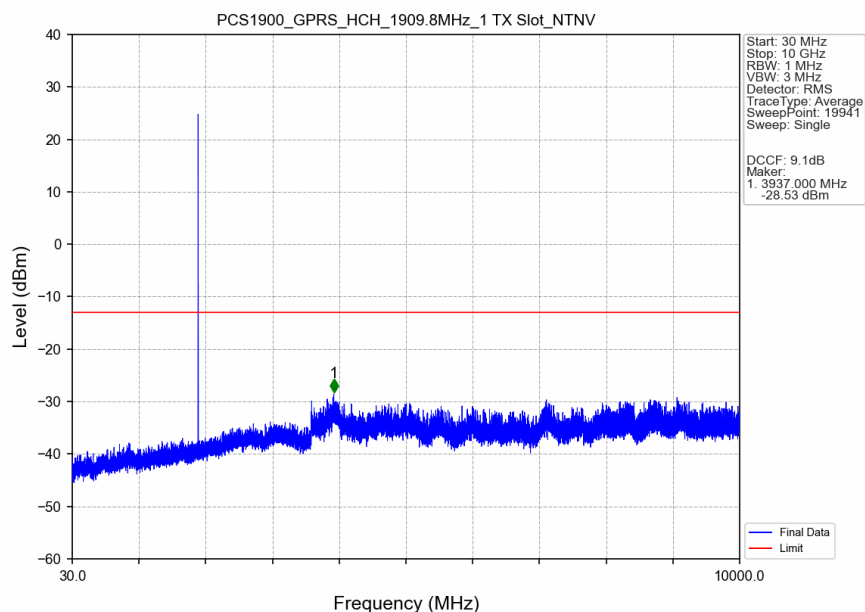
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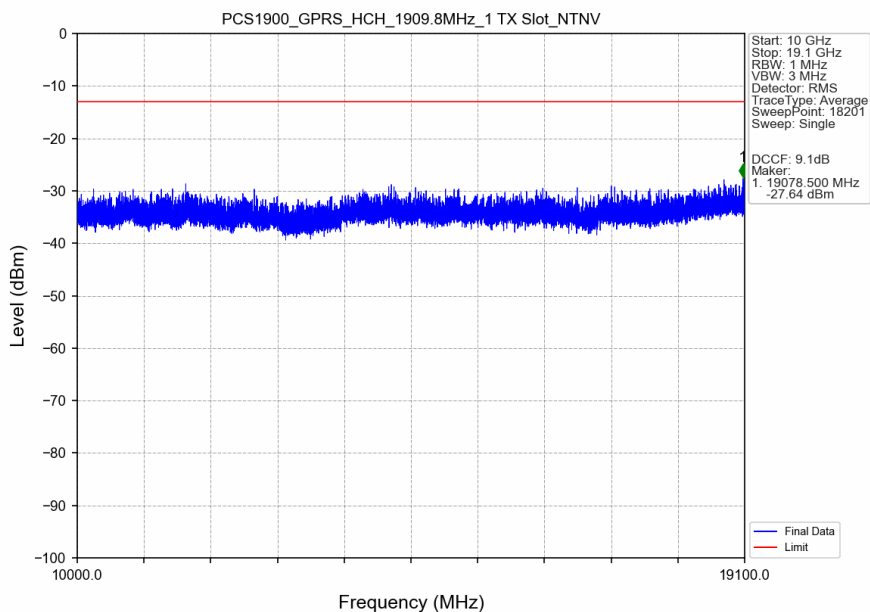
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



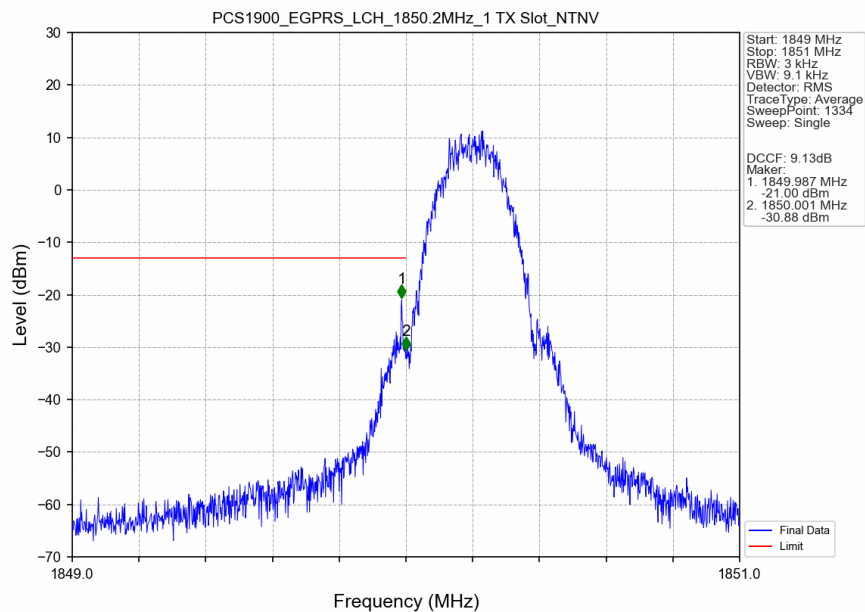
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



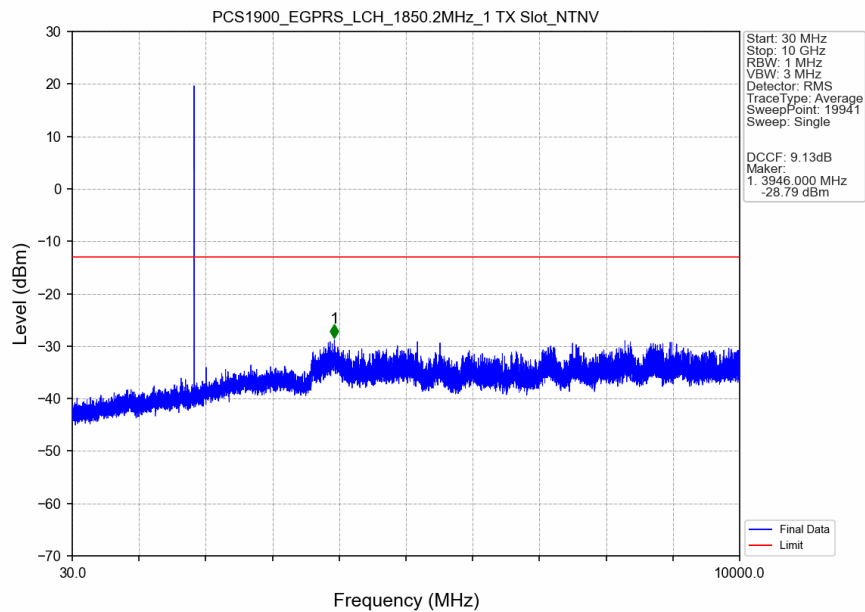
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



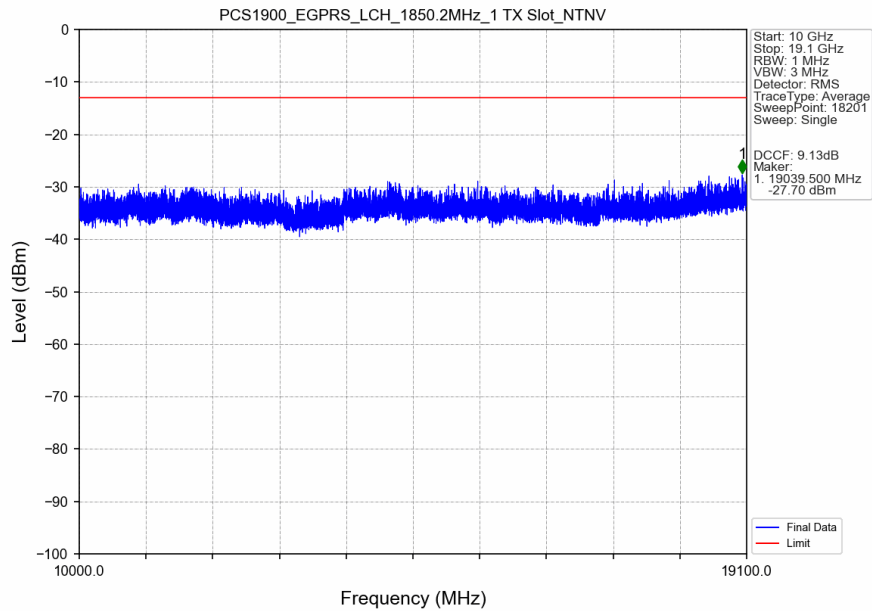
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



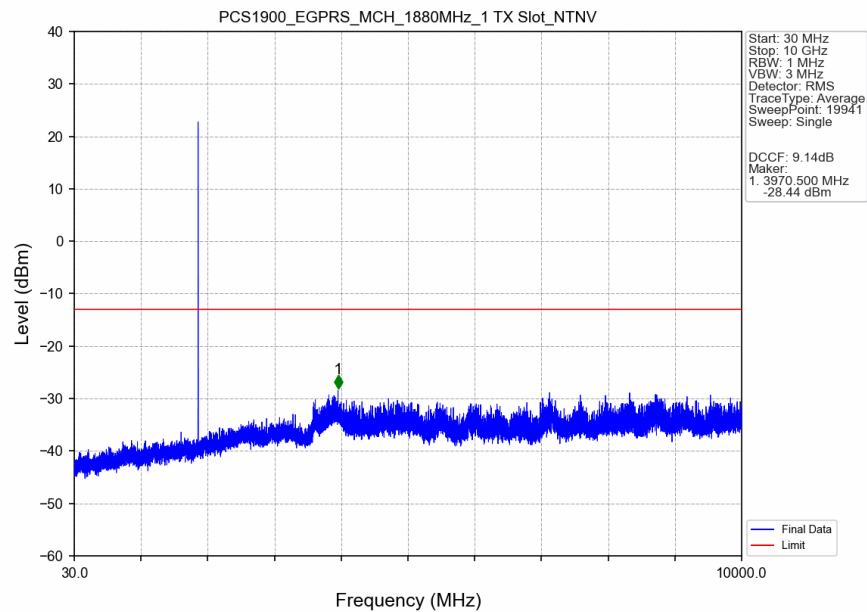
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



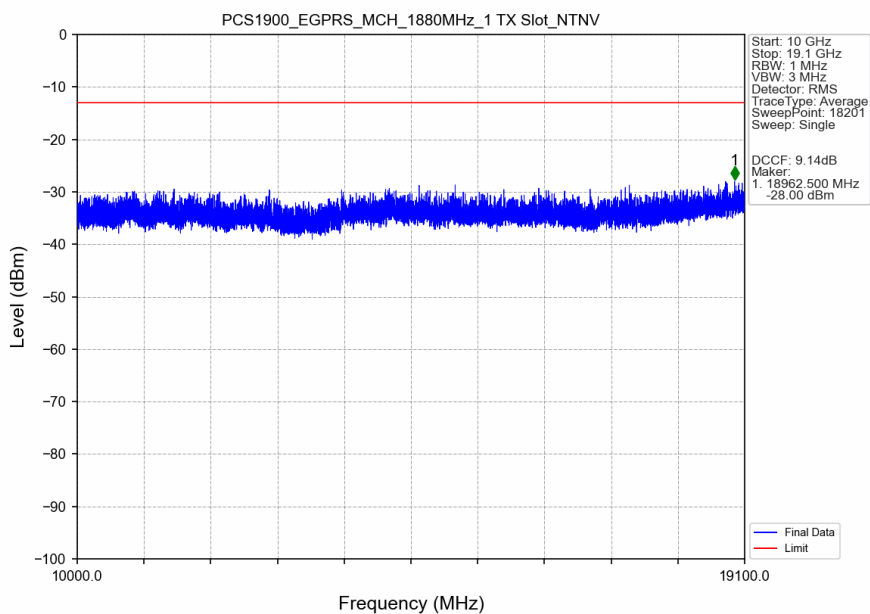
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



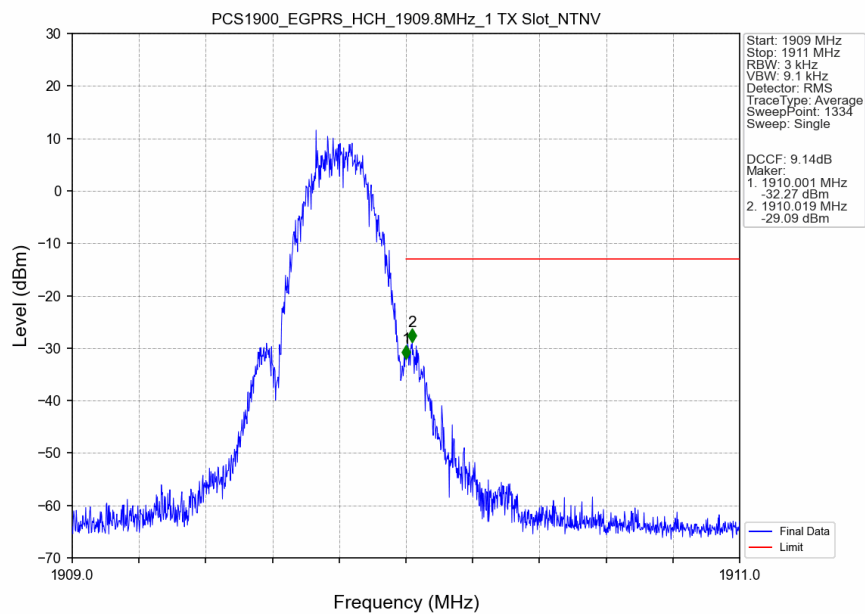
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



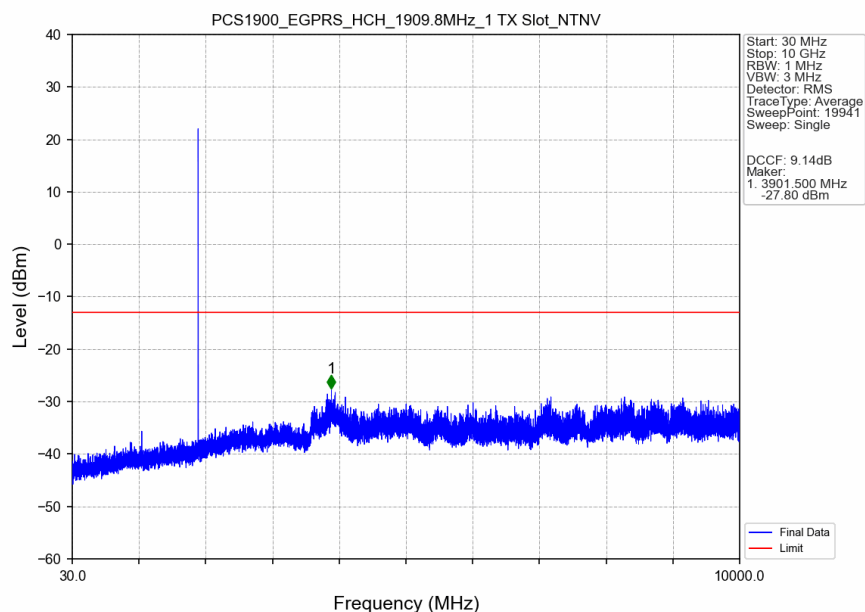
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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

