

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	2.23	31.70	<=33.01	Pass
		2 TX Slots	1850.2	28.36	2.23	30.59	<=33.01	Pass
		3 TX Slots	1850.2	26.34	2.23	28.57	<=33.01	Pass
		4 TX Slots	1850.2	25.28	2.23	27.51	<=33.01	Pass
		1 TX Slot	1880	29.98	2.23	32.21	<=33.01	Pass
		2 TX Slots	1880	28.89	2.23	31.12	<=33.01	Pass
		3 TX Slots	1880	27.11	2.23	29.34	<=33.01	Pass
		4 TX Slots	1880	26.20	2.23	28.43	<=33.01	Pass
		1 TX Slot	1909.8	30.66	2.23	32.89	<=33.01	Pass
		2 TX Slots	1909.8	29.54	2.23	31.77	<=33.01	Pass
		3 TX Slots	1909.8	27.81	2.23	30.04	<=33.01	Pass
		4 TX Slots	1909.8	26.84	2.23	29.07	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.80	2.23	28.03	<=33.01	Pass
		2 TX Slots	1850.2	25.06	2.23	27.29	<=33.01	Pass
		3 TX Slots	1850.2	22.99	2.23	25.22	<=33.01	Pass
		4 TX Slots	1850.2	22.40	2.23	24.63	<=33.01	Pass
		1 TX Slot	1880	26.44	2.23	28.67	<=33.01	Pass
		2 TX Slots	1880	25.77	2.23	28.00	<=33.01	Pass
		3 TX Slots	1880	23.65	2.23	25.88	<=33.01	Pass
		4 TX Slots	1880	22.77	2.23	25.00	<=33.01	Pass
		1 TX Slot	1909.8	26.96	2.23	29.19	<=33.01	Pass
		2 TX Slots	1909.8	25.35	2.23	27.58	<=33.01	Pass
		3 TX Slots	1909.8	23.99	2.23	26.22	<=33.01	Pass
		4 TX Slots	1909.8	22.31	2.23	24.54	<=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	24.602	0.0133	-2.5 to 2.5	Pass
			NV	19.565	0.0106	-2.5 to 2.5	Pass
			HV	21.115	0.0114	-2.5 to 2.5	Pass
		-30	NV	22.051	0.0119	-2.5 to 2.5	Pass
		-20	NV	17.596	0.0095	-2.5 to 2.5	Pass
		-10	NV	21.890	0.0118	-2.5 to 2.5	Pass
		0	NV	20.695	0.0112	-2.5 to 2.5	Pass
		10	NV	18.048	0.0098	-2.5 to 2.5	Pass

		30	NV	21.050	0.0114	-2.5 to 2.5	Pass
		40	NV	20.050	0.0108	-2.5 to 2.5	Pass
		50	NV	21.890	0.0118	-2.5 to 2.5	Pass
	1880	20	LV	17.983	0.0096	-2.5 to 2.5	Pass
			NV	23.117	0.0123	-2.5 to 2.5	Pass
			HV	22.245	0.0118	-2.5 to 2.5	Pass
		-30	NV	24.085	0.0128	-2.5 to 2.5	Pass
		-20	NV	17.628	0.0094	-2.5 to 2.5	Pass
		-10	NV	22.406	0.0119	-2.5 to 2.5	Pass
		0	NV	18.984	0.0101	-2.5 to 2.5	Pass
		10	NV	23.084	0.0123	-2.5 to 2.5	Pass
		30	NV	22.213	0.0118	-2.5 to 2.5	Pass
		40	NV	21.050	0.0112	-2.5 to 2.5	Pass
		50	NV	19.210	0.0102	-2.5 to 2.5	Pass
	1909.8	20	LV	22.084	0.0116	-2.5 to 2.5	Pass
			NV	21.567	0.0113	-2.5 to 2.5	Pass
			HV	17.854	0.0093	-2.5 to 2.5	Pass
		-30	NV	21.438	0.0112	-2.5 to 2.5	Pass
		-20	NV	18.177	0.0095	-2.5 to 2.5	Pass
		-10	NV	20.792	0.0109	-2.5 to 2.5	Pass
		0	NV	22.503	0.0118	-2.5 to 2.5	Pass
		10	NV	21.470	0.0112	-2.5 to 2.5	Pass
		30	NV	17.757	0.0093	-2.5 to 2.5	Pass
		40	NV	16.434	0.0086	-2.5 to 2.5	Pass
		50	NV	18.694	0.0098	-2.5 to 2.5	Pass
EGPRS	1850.2	20	LV	22.148	0.0120	-2.5 to 2.5	Pass
			NV	23.246	0.0126	-2.5 to 2.5	Pass
			HV	20.728	0.0112	-2.5 to 2.5	Pass
		-30	NV	24.279	0.0131	-2.5 to 2.5	Pass
		-20	NV	21.825	0.0118	-2.5 to 2.5	Pass
		-10	NV	27.927	0.0151	-2.5 to 2.5	Pass
		0	NV	24.440	0.0132	-2.5 to 2.5	Pass
		10	NV	22.439	0.0121	-2.5 to 2.5	Pass
		30	NV	23.117	0.0125	-2.5 to 2.5	Pass
		40	NV	21.180	0.0114	-2.5 to 2.5	Pass
		50	NV	23.472	0.0127	-2.5 to 2.5	Pass
	1880	20	LV	23.117	0.0123	-2.5 to 2.5	Pass
			NV	27.475	0.0146	-2.5 to 2.5	Pass
			HV	24.731	0.0132	-2.5 to 2.5	Pass
		-30	NV	21.147	0.0112	-2.5 to 2.5	Pass
		-20	NV	21.406	0.0114	-2.5 to 2.5	Pass
		-10	NV	20.372	0.0108	-2.5 to 2.5	Pass
		0	NV	21.567	0.0115	-2.5 to 2.5	Pass
		10	NV	20.986	0.0112	-2.5 to 2.5	Pass
		30	NV	23.052	0.0123	-2.5 to 2.5	Pass
		40	NV	24.118	0.0128	-2.5 to 2.5	Pass
		50	NV	21.696	0.0115	-2.5 to 2.5	Pass
	1909.8	20	LV	15.982	0.0084	-2.5 to 2.5	Pass
			NV	20.792	0.0109	-2.5 to 2.5	Pass
			HV	15.723	0.0082	-2.5 to 2.5	Pass
		-30	NV	16.627	0.0087	-2.5 to 2.5	Pass
		-20	NV	19.856	0.0104	-2.5 to 2.5	Pass
		-10	NV	16.304	0.0085	-2.5 to 2.5	Pass
		0	NV	17.208	0.0090	-2.5 to 2.5	Pass
		10	NV	20.728	0.0109	-2.5 to 2.5	Pass
		30	NV	18.145	0.0095	-2.5 to 2.5	Pass

		40	NV	20.308	0.0106	-2.5 to 2.5	Pass
		50	NV	16.466	0.0086	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

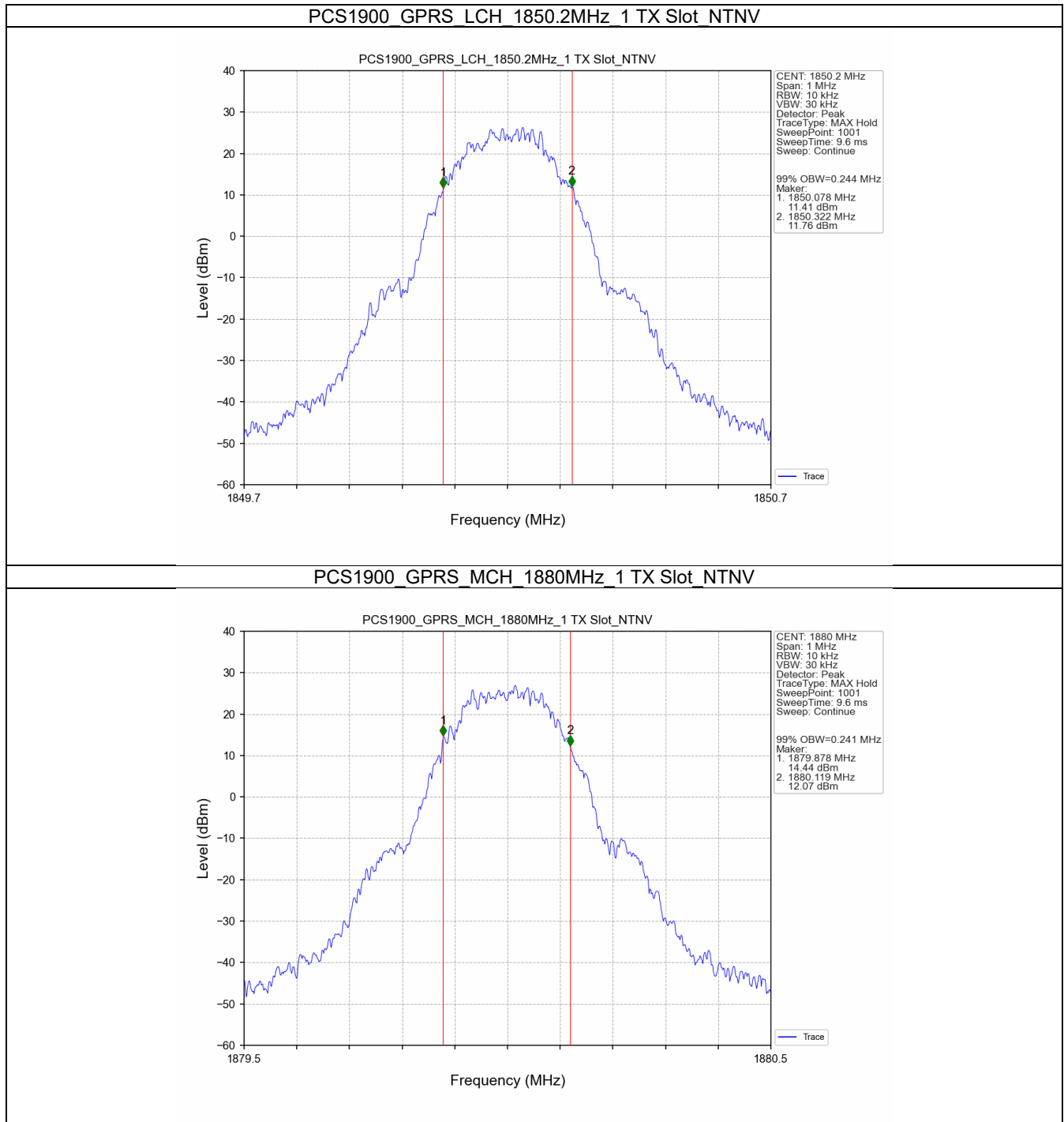
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.244	/	Pass
			1880	0.241	/	Pass
			1909.8	0.246	/	Pass
	EGPRS	1 TX Slot	1850.2	0.246	/	Pass
			1880	0.248	/	Pass
			1909.8	0.246	/	Pass

3.1.2 PCS1900_XDB

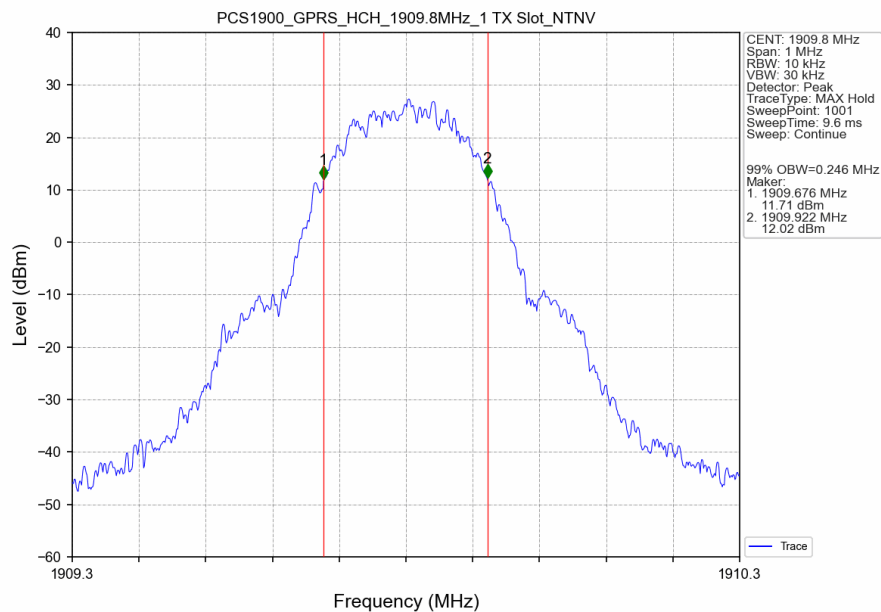
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.318	/	Pass
			1880	0.313	/	Pass
			1909.8	0.312	/	Pass
	EGPRS	1 TX Slot	1850.2	0.323	/	Pass
			1880	0.312	/	Pass
			1909.8	0.315	/	Pass

3.2 Test Graph

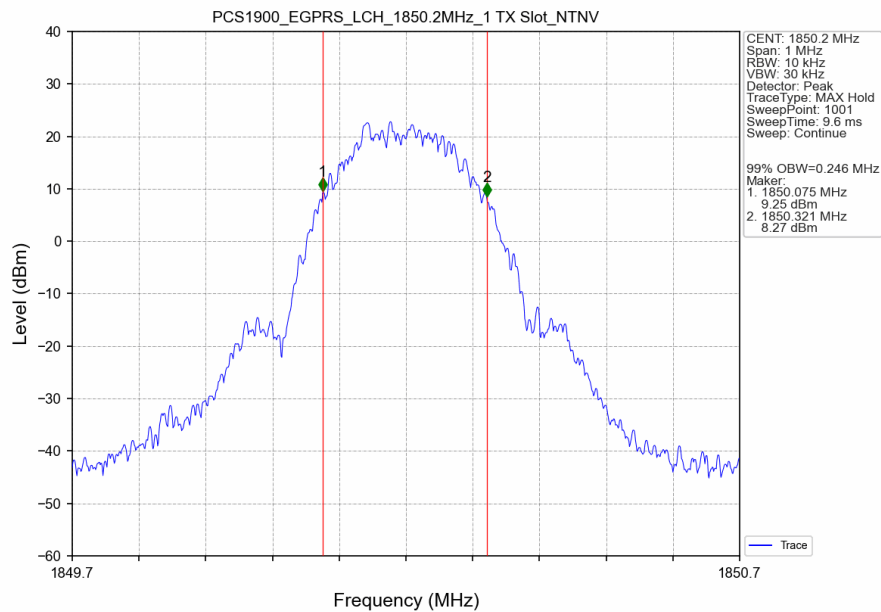
3.2.1 PCS1900_OBW



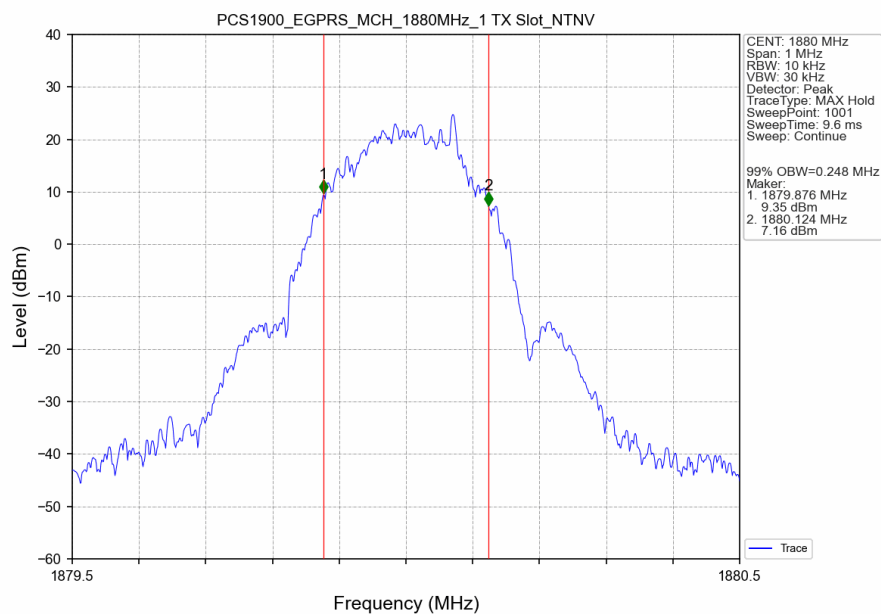
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



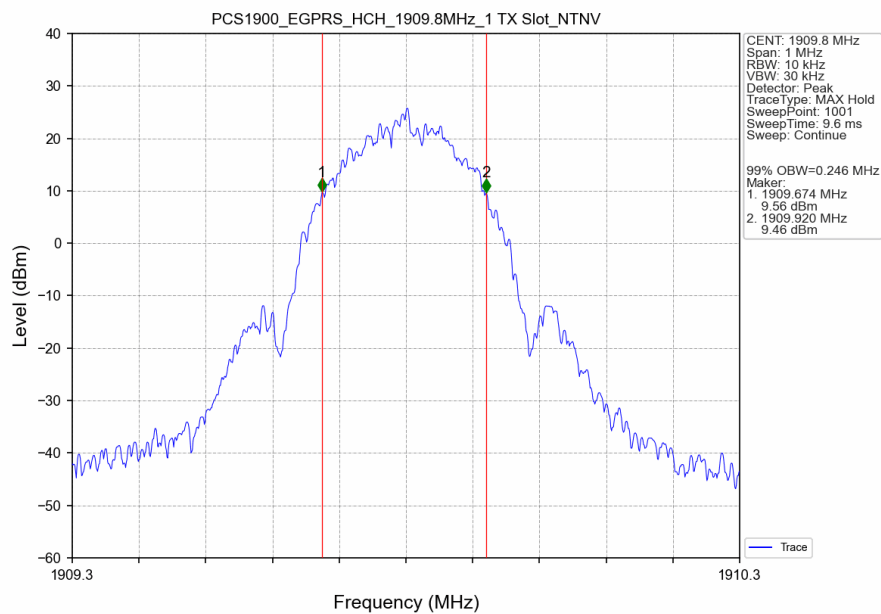
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



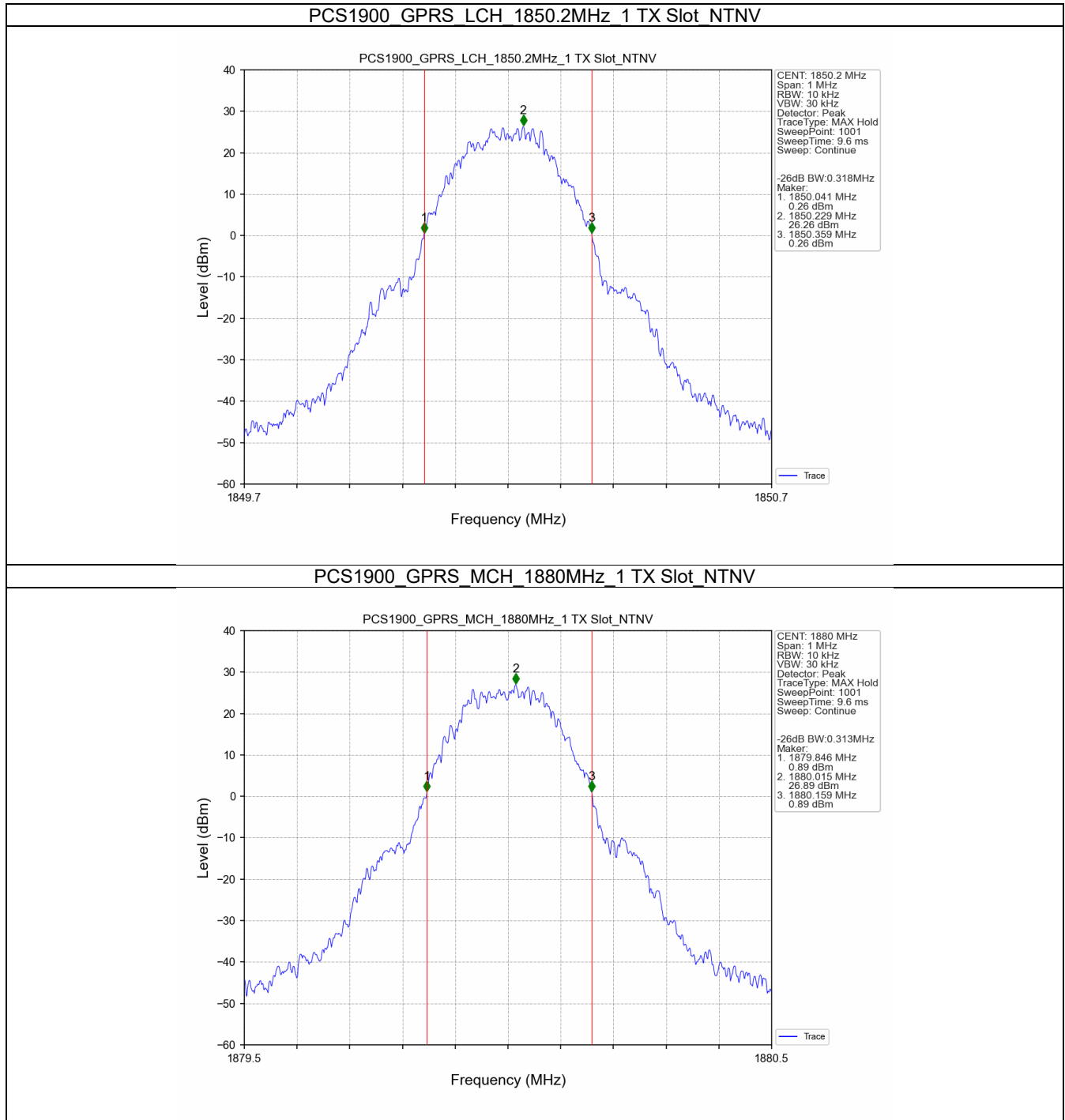
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



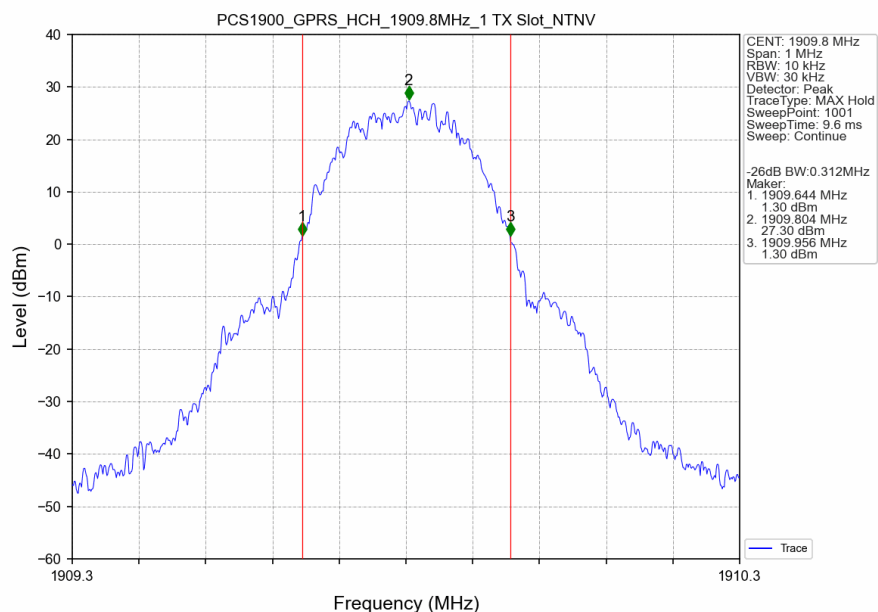
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



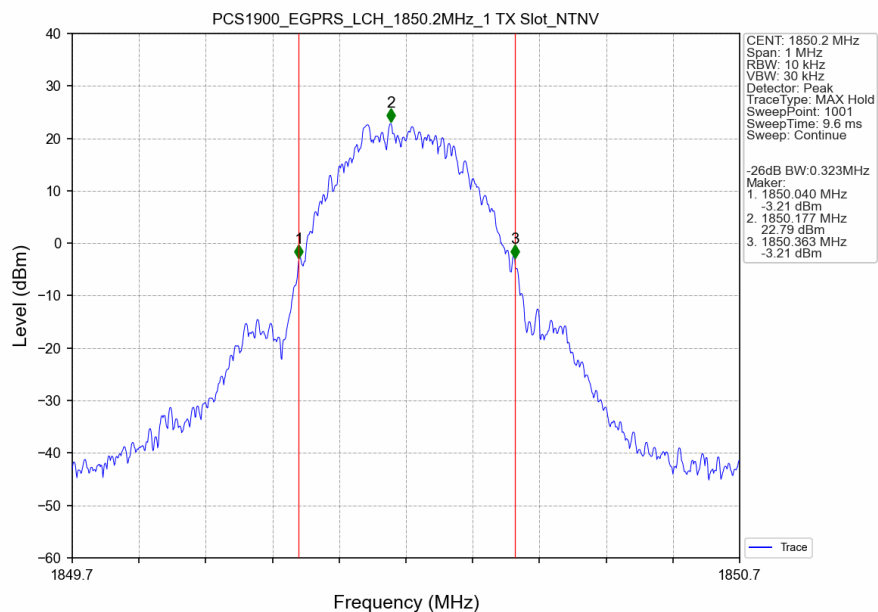
3.2.2 PCS1900_XDB



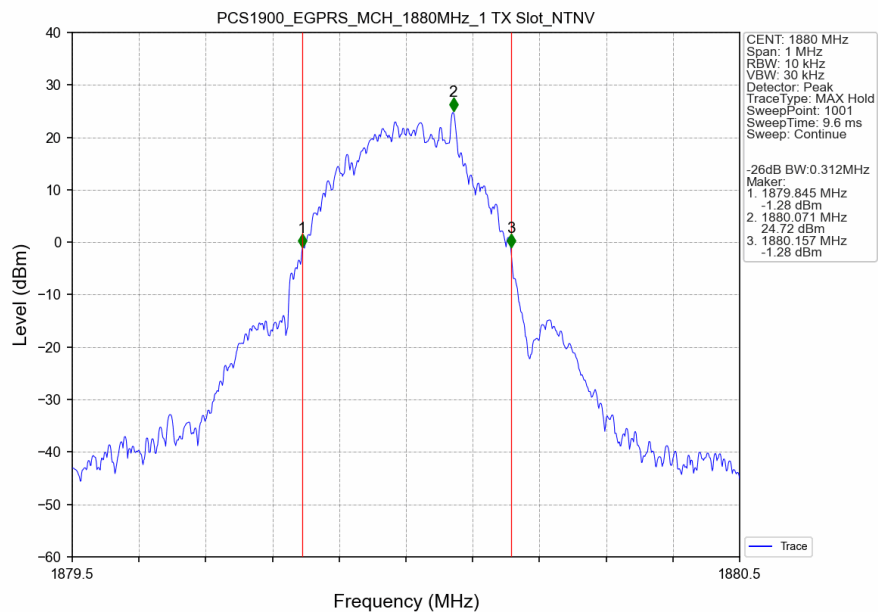
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



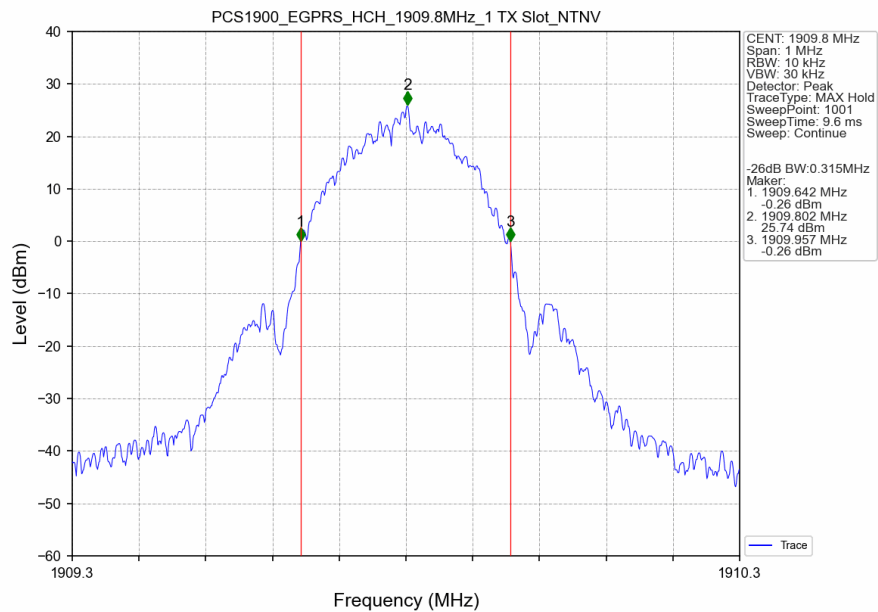
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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

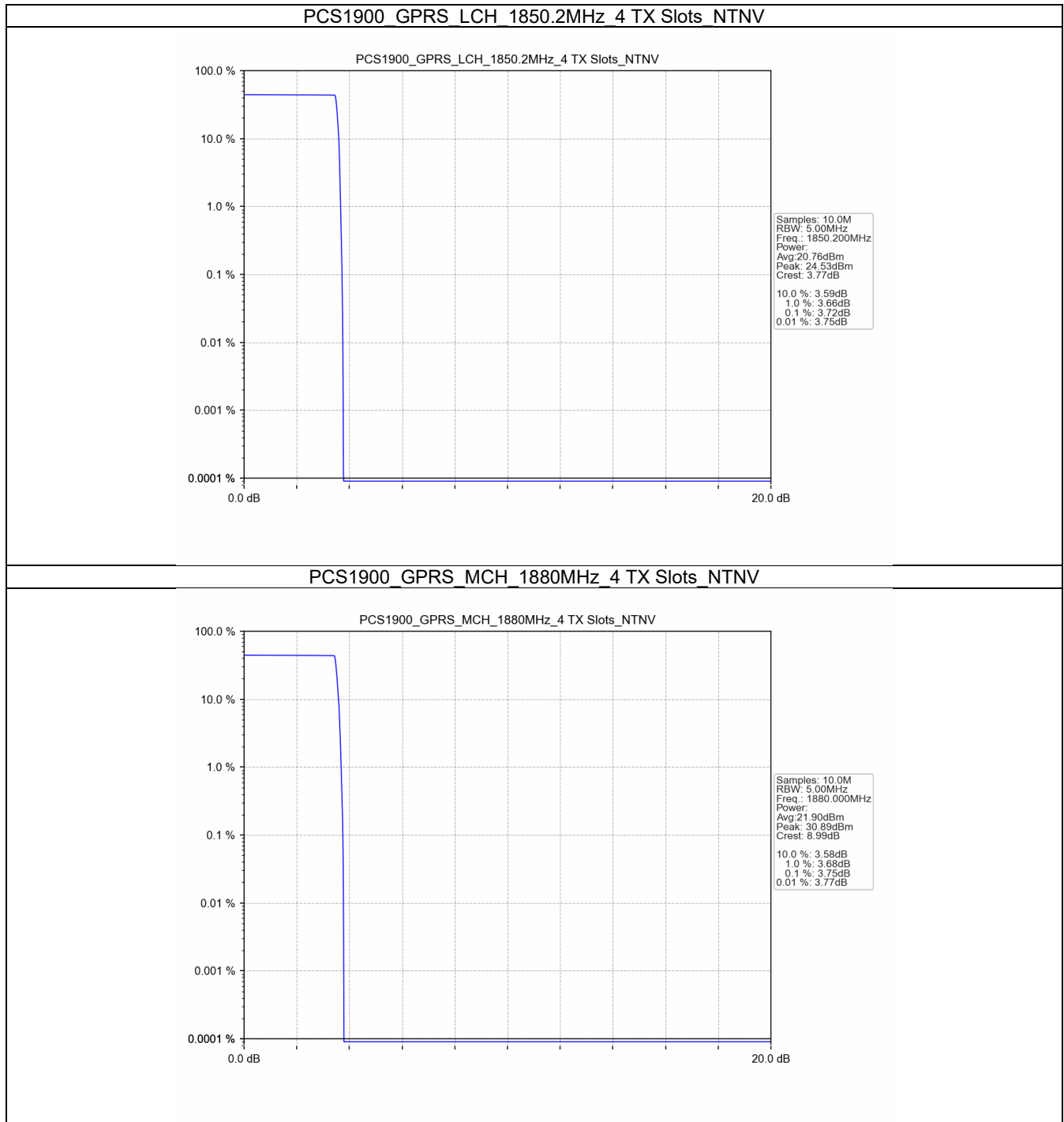
4.1.1 PCS1900

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	3.72	<=13	Pass
			1880	3.75	<=13	Pass
			1909.8	3.80	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.84	<=13	Pass
			1880	7.00	<=13	Pass
			1909.8	6.82	<=13	Pass

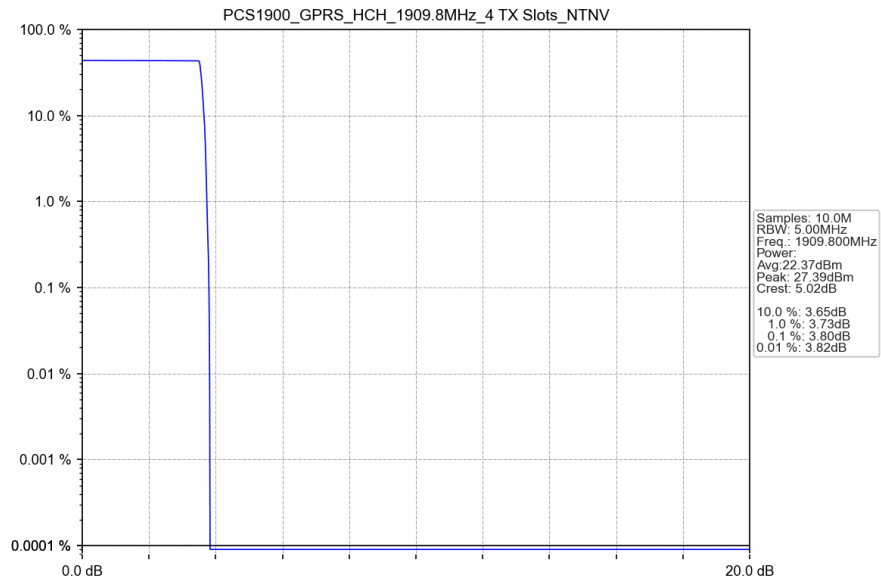


4.2 Test Graph

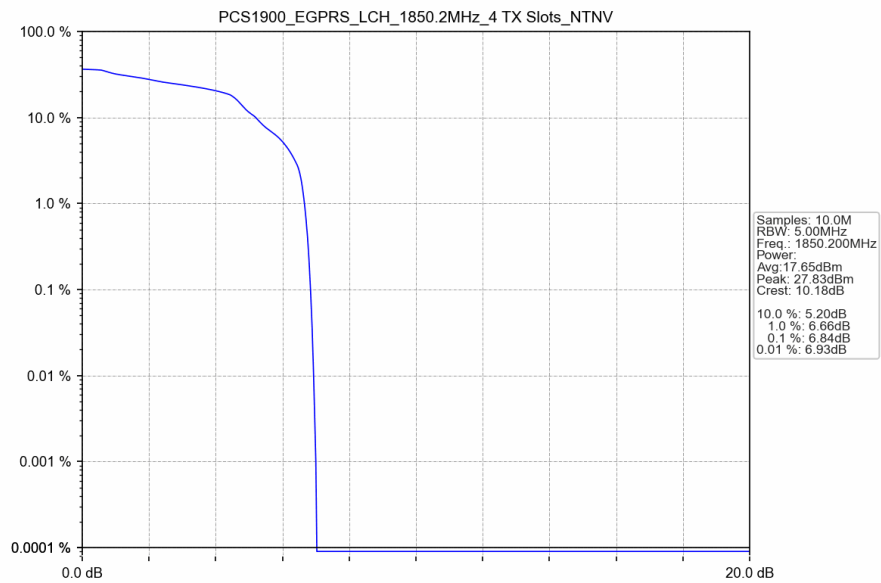
4.2.1 PCS1900



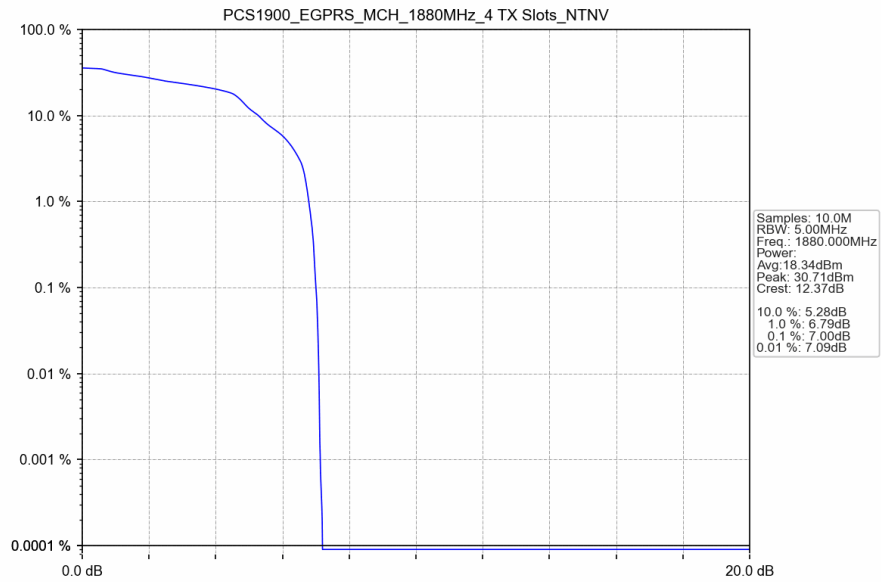
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



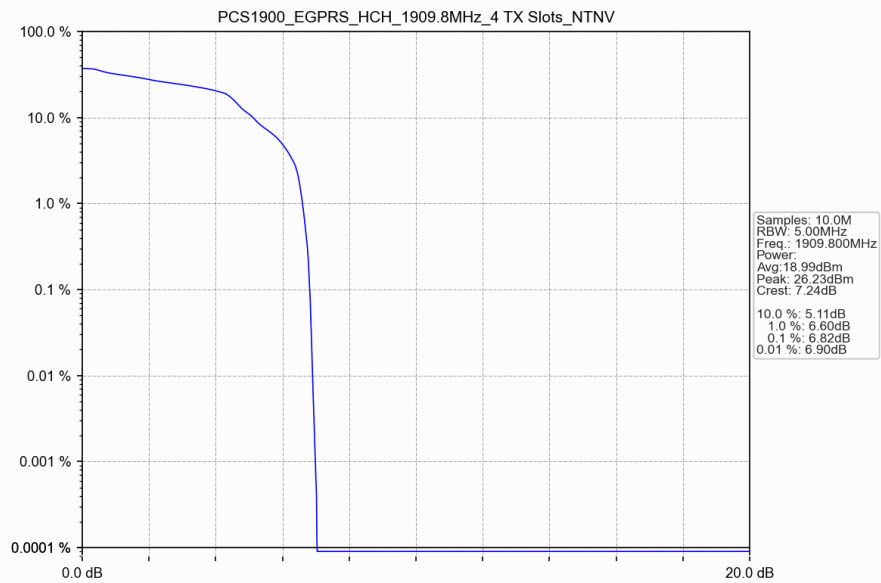
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV





5. Spurious Emission

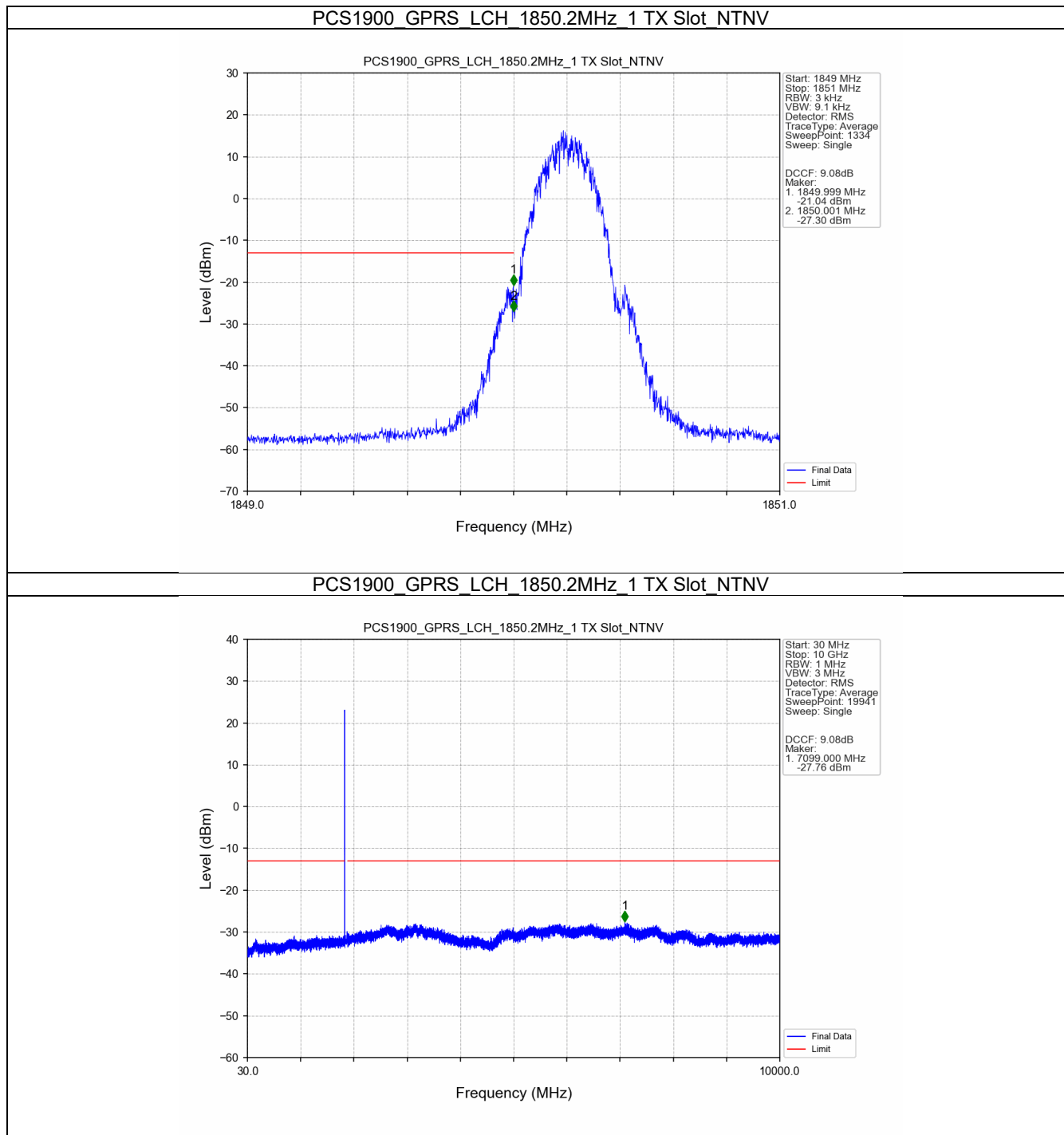
5.1 Test Result

5.1.1 PCS1900

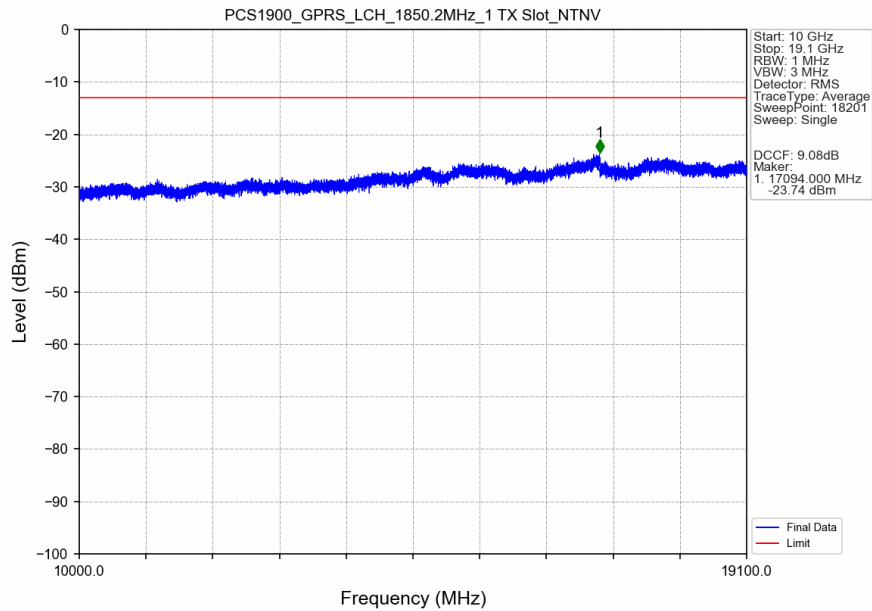
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph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

5.2 Test Graph

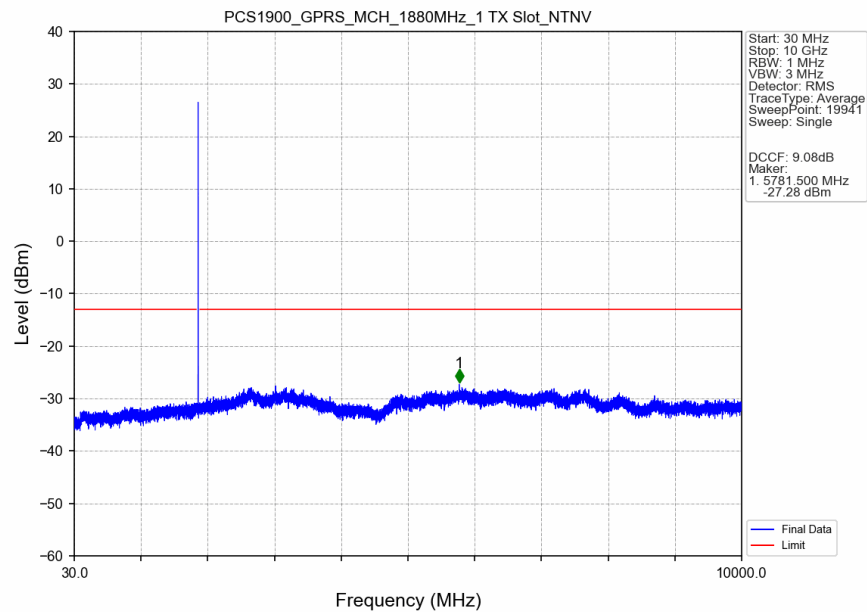
5.2.1 PCS1900



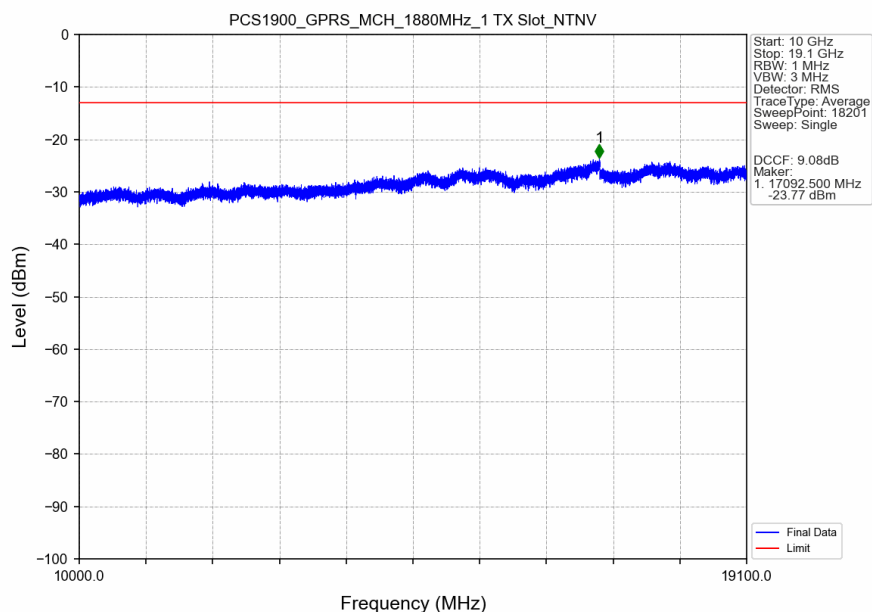
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



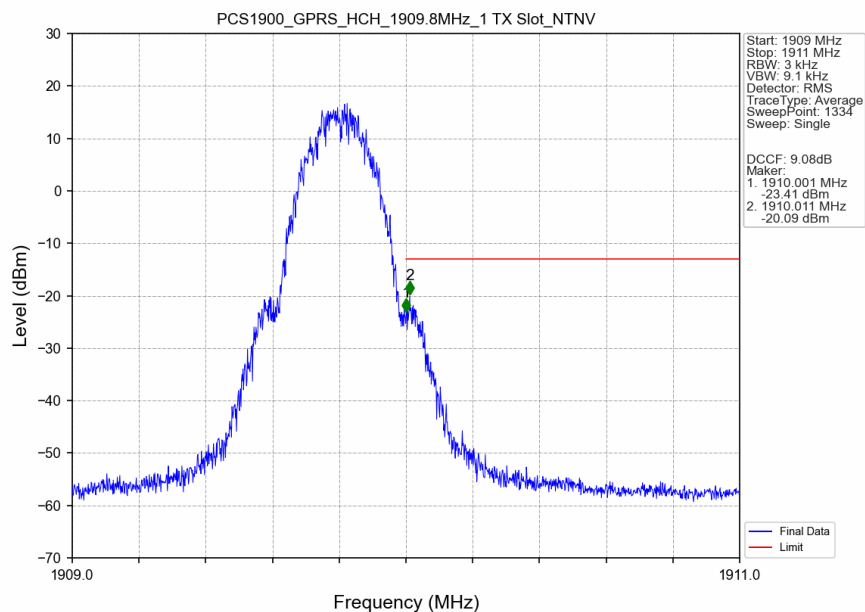
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



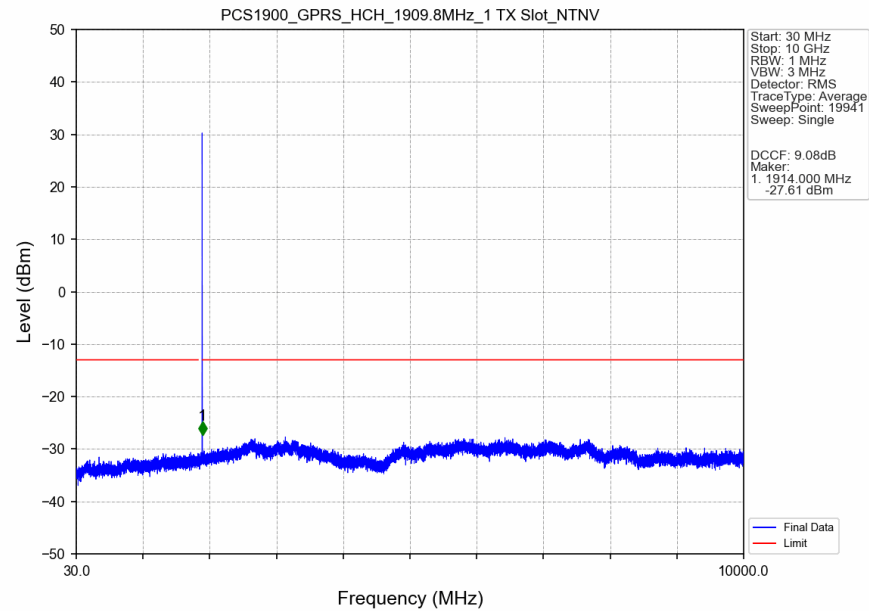
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



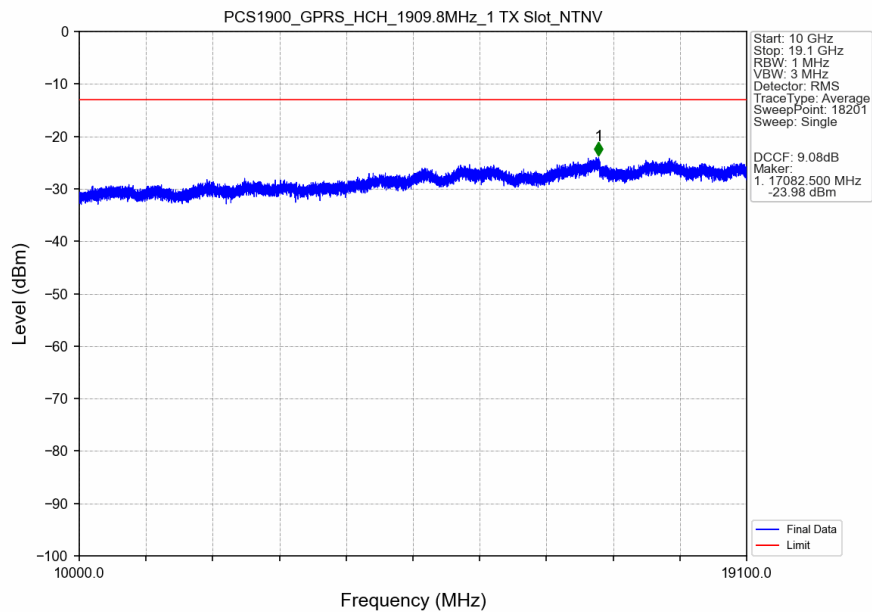
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



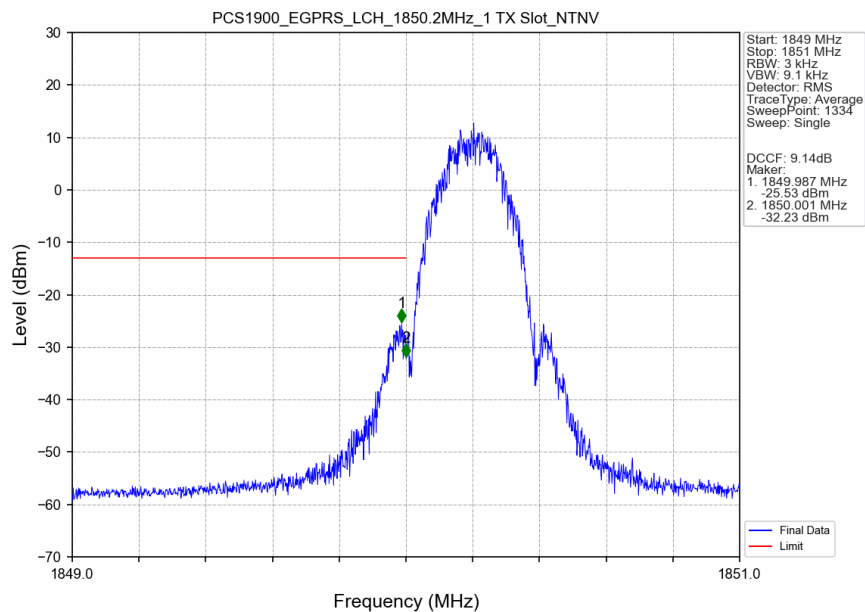
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



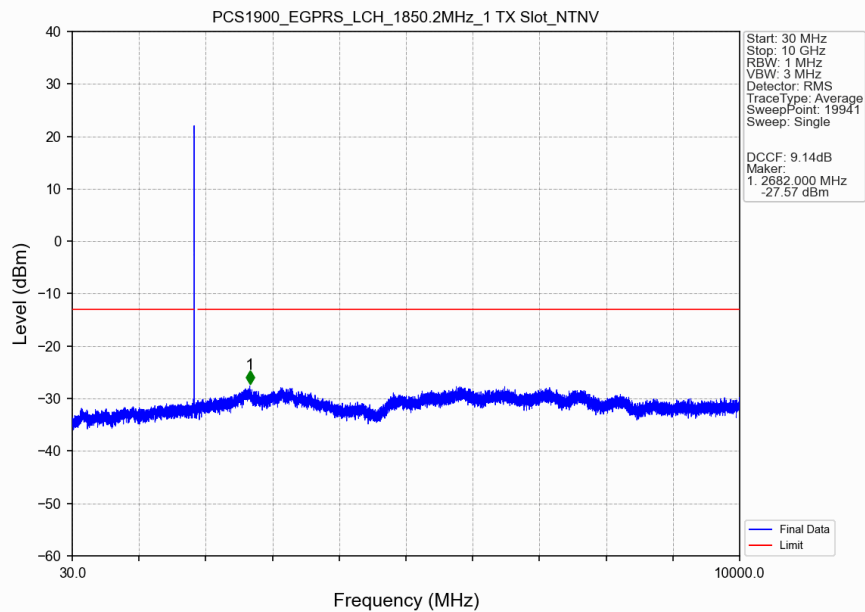
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



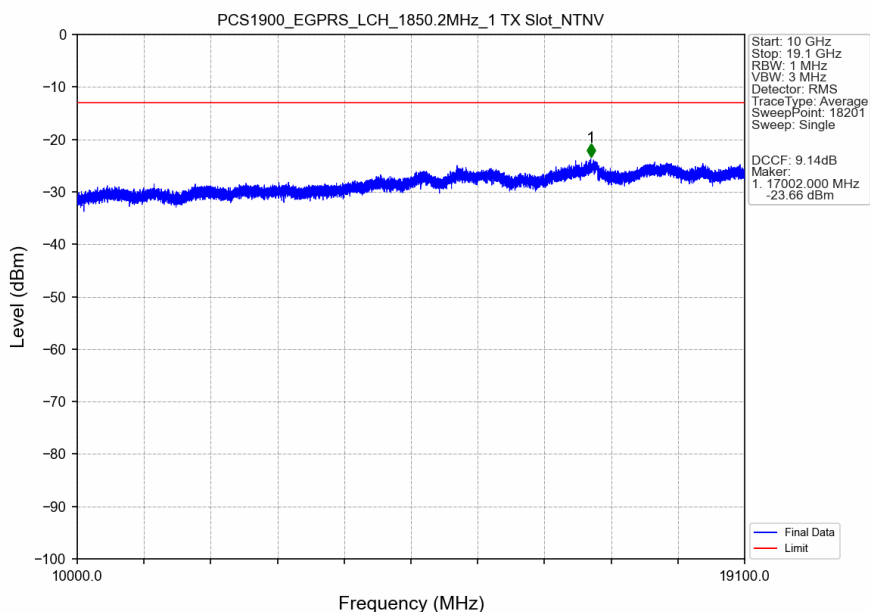
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



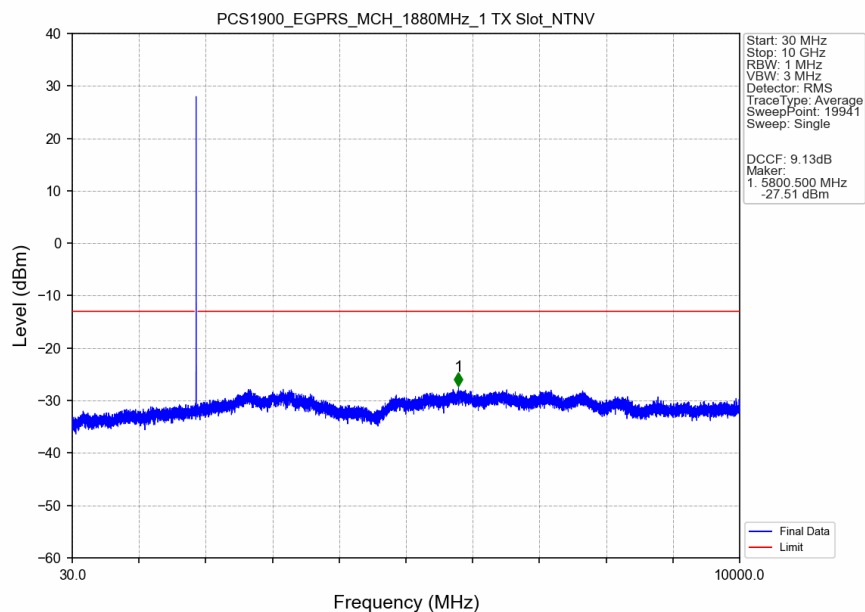
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



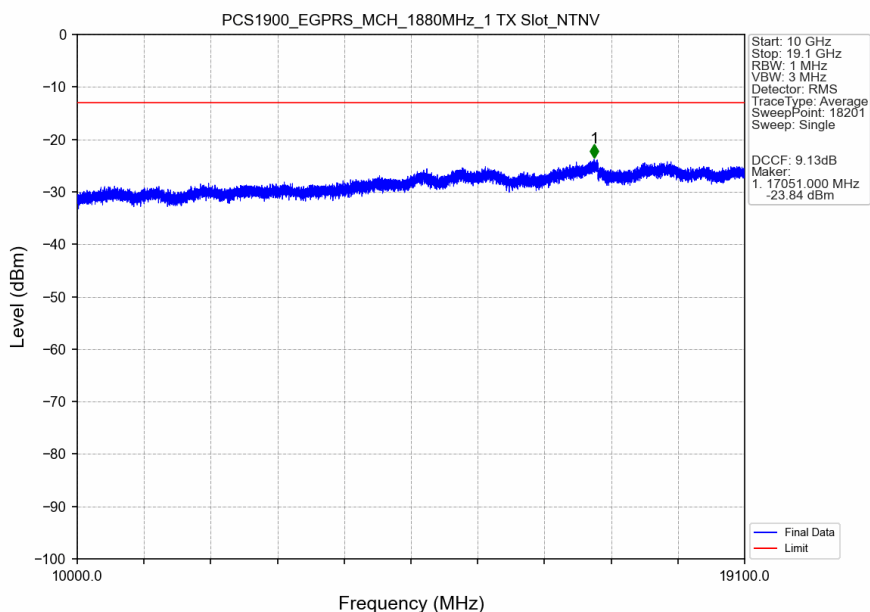
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



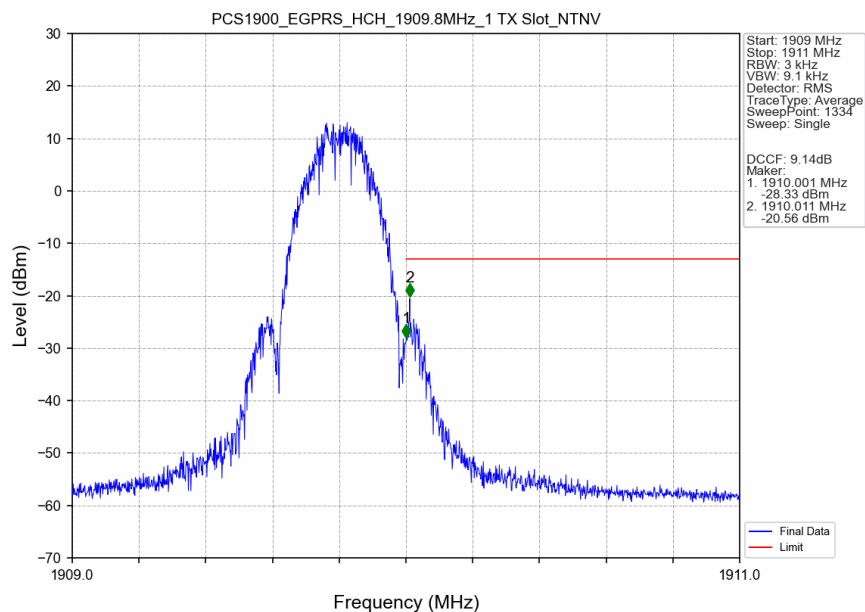
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



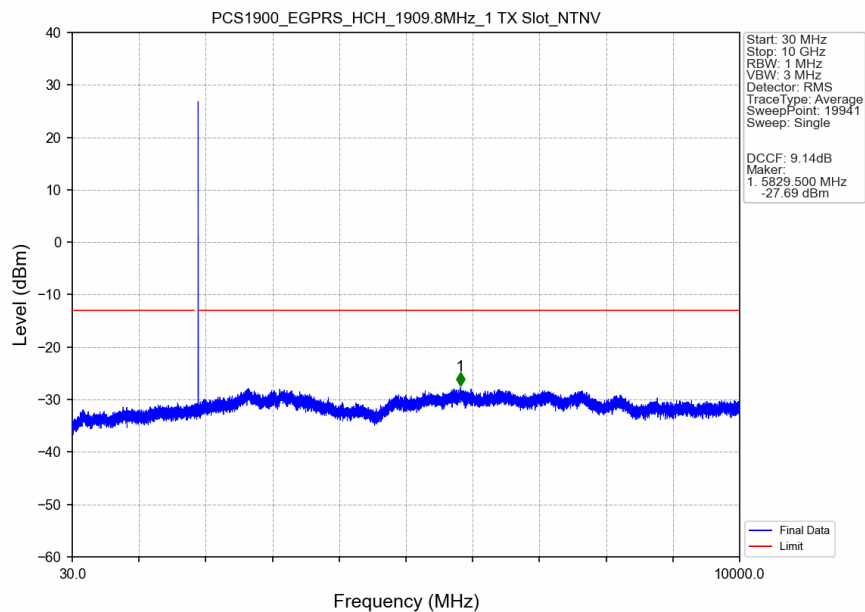
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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

