

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

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	27.72	0.55	28.27	<=33.01	Pass
		2 TX Slots	1850.2	26.98	0.55	27.53	<=33.01	Pass
		3 TX Slots	1850.2	25.25	0.55	25.80	<=33.01	Pass
		4 TX Slots	1850.2	24.06	0.55	24.61	<=33.01	Pass
		1 TX Slot	1880	26.97	0.55	27.52	<=33.01	Pass
		2 TX Slots	1880	26.25	0.55	26.80	<=33.01	Pass
		3 TX Slots	1880	24.39	0.55	24.94	<=33.01	Pass
		4 TX Slots	1880	23.15	0.55	23.70	<=33.01	Pass
		1 TX Slot	1909.8	26.83	0.55	27.38	<=33.01	Pass
		2 TX Slots	1909.8	26.09	0.55	26.64	<=33.01	Pass
		3 TX Slots	1909.8	24.16	0.55	24.71	<=33.01	Pass
		4 TX Slots	1909.8	22.91	0.55	23.46	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.59	0.55	26.14	<=33.01	Pass
		2 TX Slots	1850.2	24.40	0.55	24.95	<=33.01	Pass
		3 TX Slots	1850.2	22.52	0.55	23.07	<=33.01	Pass
		4 TX Slots	1850.2	20.68	0.55	21.23	<=33.01	Pass
		1 TX Slot	1880	24.48	0.55	25.03	<=33.01	Pass
		2 TX Slots	1880	23.67	0.55	24.22	<=33.01	Pass
		3 TX Slots	1880	21.69	0.55	22.24	<=33.01	Pass
		4 TX Slots	1880	20.22	0.55	20.77	<=33.01	Pass
		1 TX Slot	1909.8	24.03	0.55	24.58	<=33.01	Pass
		2 TX Slots	1909.8	23.20	0.55	23.75	<=33.01	Pass
		3 TX Slots	1909.8	21.19	0.55	21.74	<=33.01	Pass
		4 TX Slots	1909.8	19.33	0.55	19.88	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	3.27	18.274	0.0099	-2.5 to 2.5	Pass
			3.85	17.402	0.0094	-2.5 to 2.5	Pass
			4.43	23.569	0.0127	-2.5 to 2.5	Pass
		-30	3.85	20.243	0.0109	-2.5 to 2.5	Pass
		-20	3.85	23.666	0.0128	-2.5 to 2.5	Pass
		-10	3.85	21.858	0.0118	-2.5 to 2.5	Pass

		0	3.85	18.274	0.0099	-2.5 to 2.5	Pass
		10	3.85	21.922	0.0118	-2.5 to 2.5	Pass
		30	3.85	23.278	0.0126	-2.5 to 2.5	Pass
		40	3.85	24.989	0.0135	-2.5 to 2.5	Pass
		50	3.85	26.216	0.0142	-2.5 to 2.5	Pass
	1880	20	3.27	23.536	0.0125	-2.5 to 2.5	Pass
			3.85	22.277	0.0118	-2.5 to 2.5	Pass
			4.43	25.893	0.0138	-2.5 to 2.5	Pass
		-30	3.85	25.796	0.0137	-2.5 to 2.5	Pass
		-20	3.85	22.858	0.0122	-2.5 to 2.5	Pass
		-10	3.85	26.119	0.0139	-2.5 to 2.5	Pass
		0	3.85	23.536	0.0125	-2.5 to 2.5	Pass
		10	3.85	19.501	0.0104	-2.5 to 2.5	Pass
		30	3.85	20.469	0.0109	-2.5 to 2.5	Pass
		40	3.85	18.371	0.0098	-2.5 to 2.5	Pass
		50	3.85	24.182	0.0129	-2.5 to 2.5	Pass
	1909.8	20	3.27	23.827	0.0125	-2.5 to 2.5	Pass
			3.85	20.405	0.0107	-2.5 to 2.5	Pass
			4.43	19.694	0.0103	-2.5 to 2.5	Pass
		-30	3.85	19.178	0.0100	-2.5 to 2.5	Pass
		-20	3.85	21.083	0.0110	-2.5 to 2.5	Pass
		-10	3.85	21.502	0.0113	-2.5 to 2.5	Pass
		0	3.85	23.504	0.0123	-2.5 to 2.5	Pass
		10	3.85	23.859	0.0125	-2.5 to 2.5	Pass
		30	3.85	20.243	0.0106	-2.5 to 2.5	Pass
		40	3.85	22.374	0.0117	-2.5 to 2.5	Pass
		50	3.85	23.440	0.0123	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	17.628	0.0095	-2.5 to 2.5	Pass
			3.85	15.626	0.0084	-2.5 to 2.5	Pass
			4.43	21.018	0.0114	-2.5 to 2.5	Pass
		-30	3.85	20.437	0.0110	-2.5 to 2.5	Pass
		-20	3.85	15.142	0.0082	-2.5 to 2.5	Pass
		-10	3.85	22.632	0.0122	-2.5 to 2.5	Pass
		0	3.85	22.503	0.0122	-2.5 to 2.5	Pass
		10	3.85	17.305	0.0094	-2.5 to 2.5	Pass
		30	3.85	22.729	0.0123	-2.5 to 2.5	Pass
		40	3.85	20.631	0.0112	-2.5 to 2.5	Pass
		50	3.85	19.920	0.0108	-2.5 to 2.5	Pass
	1880	20	3.27	23.343	0.0124	-2.5 to 2.5	Pass
			3.85	23.698	0.0126	-2.5 to 2.5	Pass
			4.43	20.986	0.0112	-2.5 to 2.5	Pass
		-30	3.85	20.792	0.0111	-2.5 to 2.5	Pass
		-20	3.85	17.176	0.0091	-2.5 to 2.5	Pass
		-10	3.85	23.310	0.0124	-2.5 to 2.5	Pass
		0	3.85	25.893	0.0138	-2.5 to 2.5	Pass
		10	3.85	22.600	0.0120	-2.5 to 2.5	Pass
		30	3.85	15.820	0.0084	-2.5 to 2.5	Pass
		40	3.85	23.601	0.0126	-2.5 to 2.5	Pass
		50	3.85	22.729	0.0121	-2.5 to 2.5	Pass
	1909.8	20	3.27	24.053	0.0126	-2.5 to 2.5	Pass
			3.85	22.180	0.0116	-2.5 to 2.5	Pass
			4.43	27.475	0.0144	-2.5 to 2.5	Pass
		-30	3.85	19.016	0.0100	-2.5 to 2.5	Pass
		-20	3.85	23.633	0.0124	-2.5 to 2.5	Pass
		-10	3.85	17.338	0.0091	-2.5 to 2.5	Pass

		0	3.85	21.696	0.0114	-2.5 to 2.5	Pass
		10	3.85	20.437	0.0107	-2.5 to 2.5	Pass
		30	3.85	20.631	0.0108	-2.5 to 2.5	Pass
		40	3.85	20.534	0.0108	-2.5 to 2.5	Pass
		50	3.85	22.116	0.0116	-2.5 to 2.5	Pass

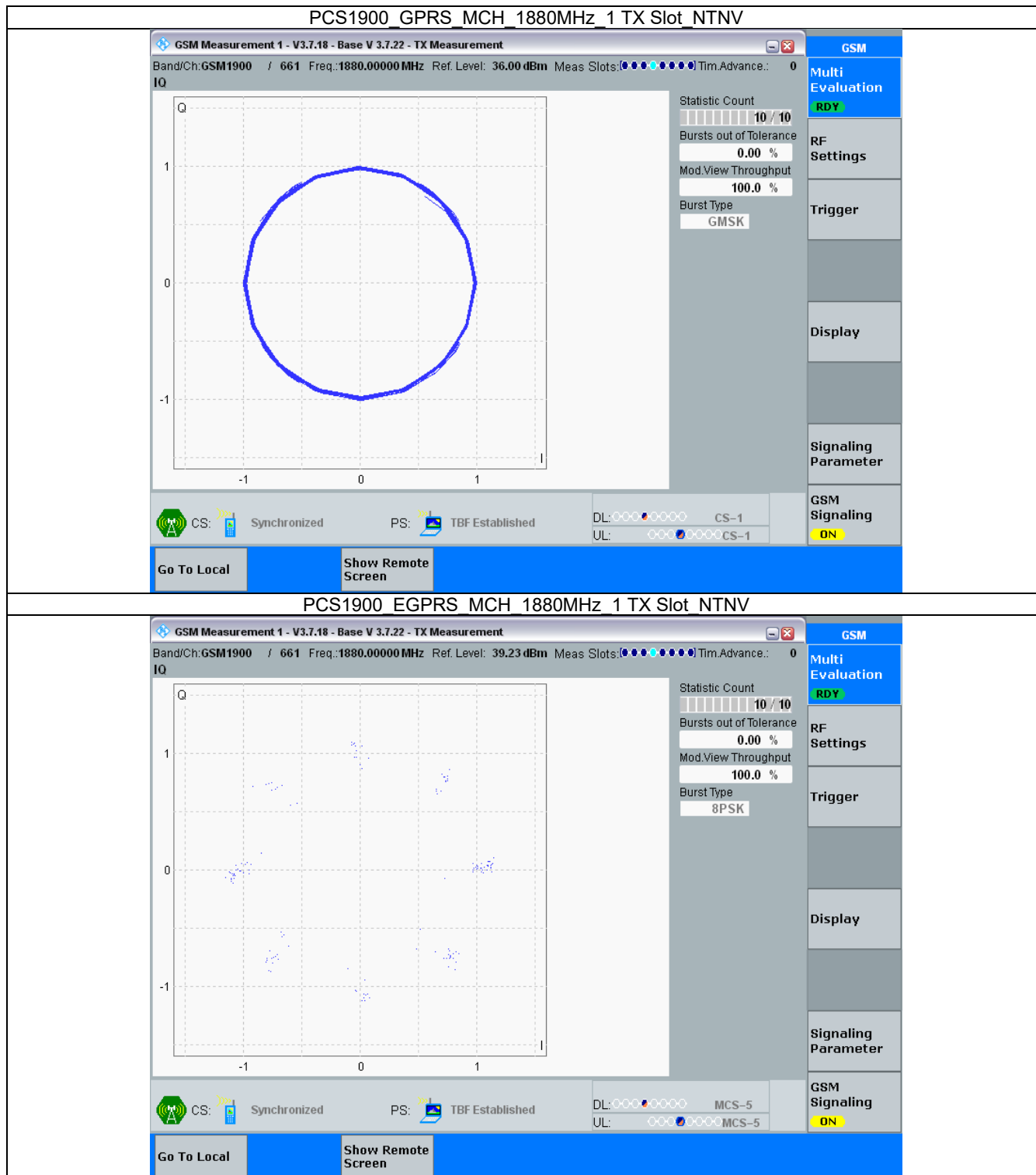
3. Modulation Characteristics

3.1 PCS1900

3.1.1 Test Result

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

3.1.2 Test Graph



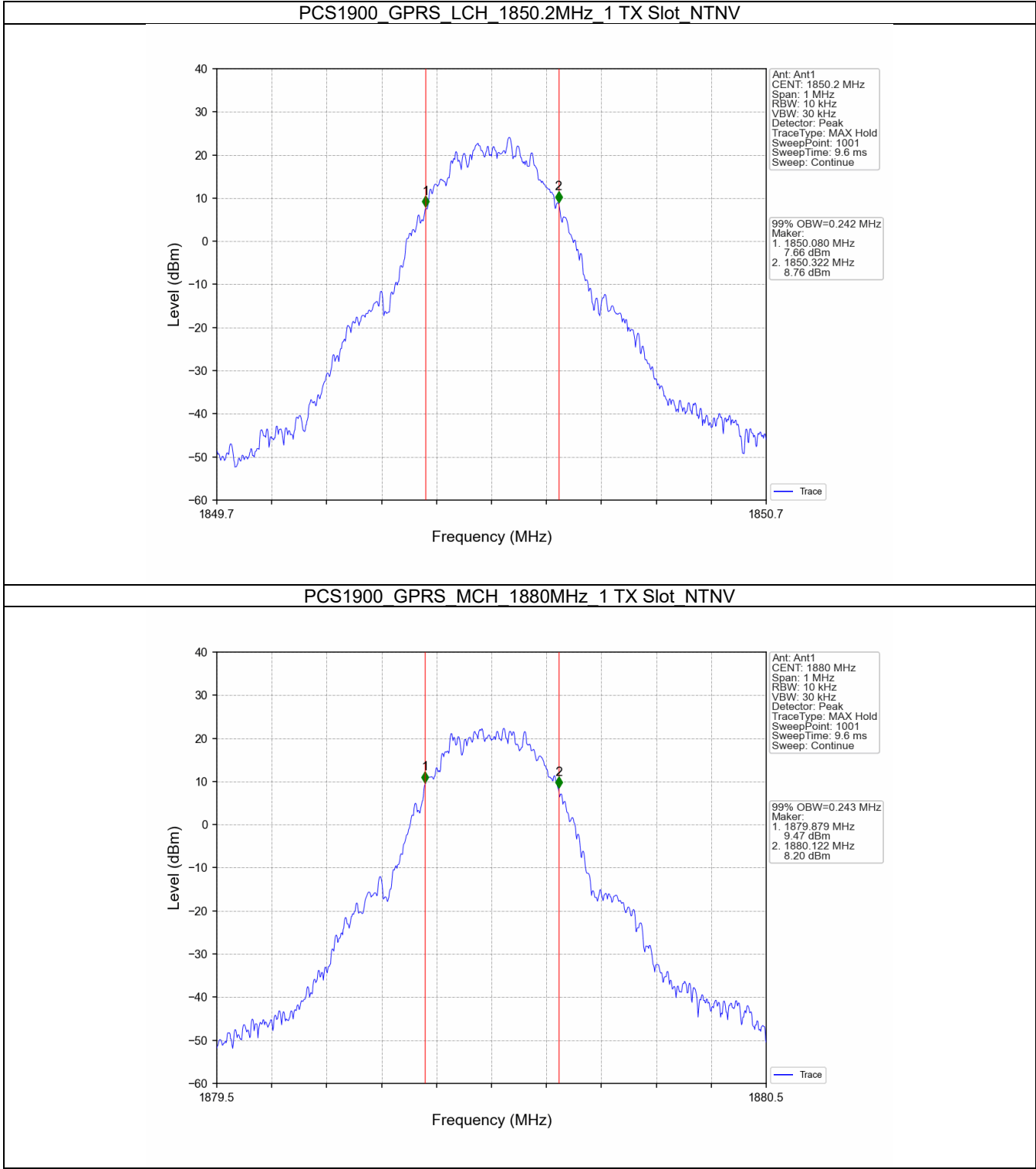
4. 99% & 26dB Bandwidth

4.1 PCS1900_OBW

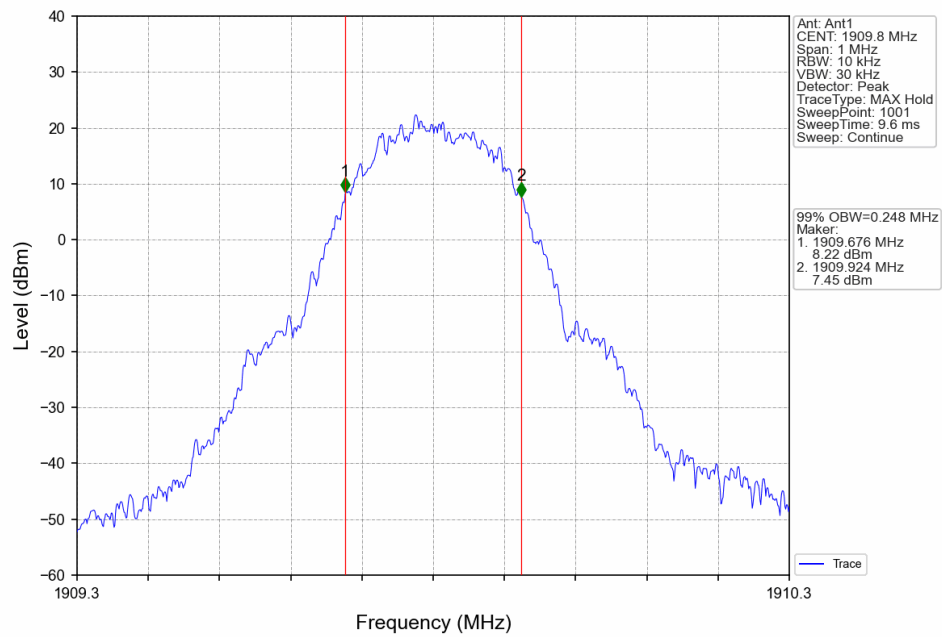
4.1.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.242	Pass
			1880	0.243	Pass
			1909.8	0.248	Pass
	EGPRS	1 TX Slot	1850.2	0.267	Pass
			1880	0.262	Pass
			1909.8	0.259	Pass

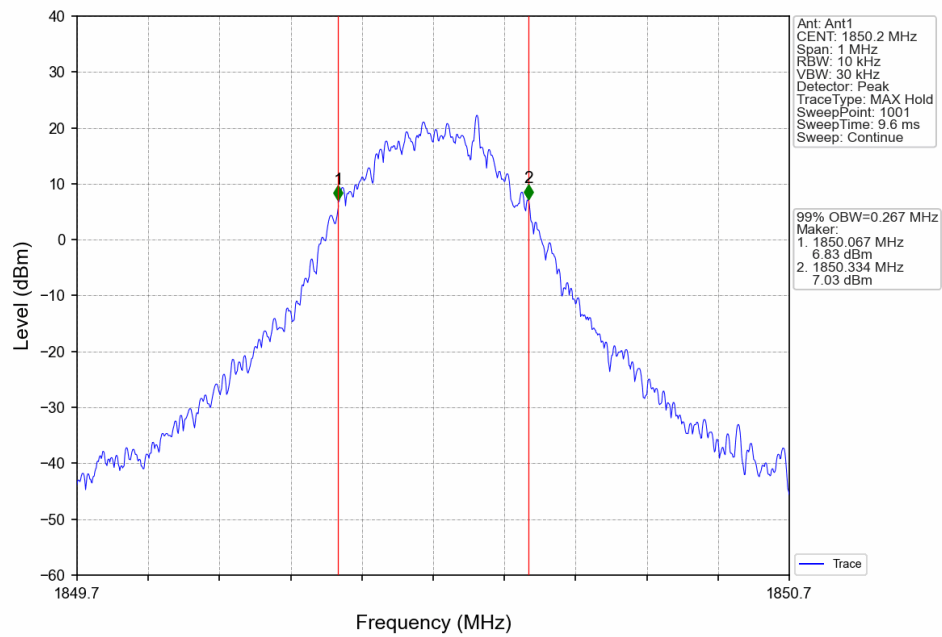
4.1.2 Test Graph



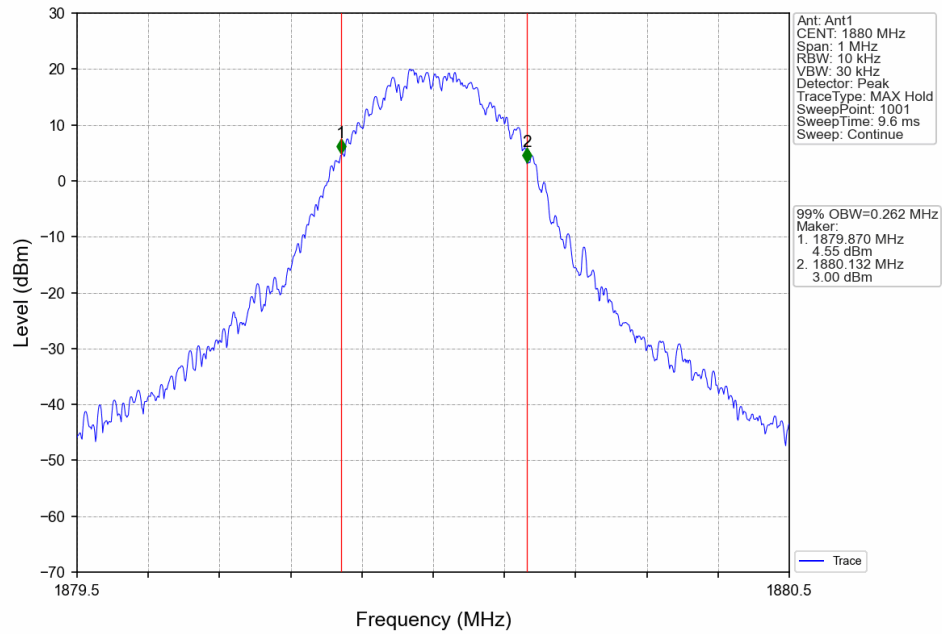
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



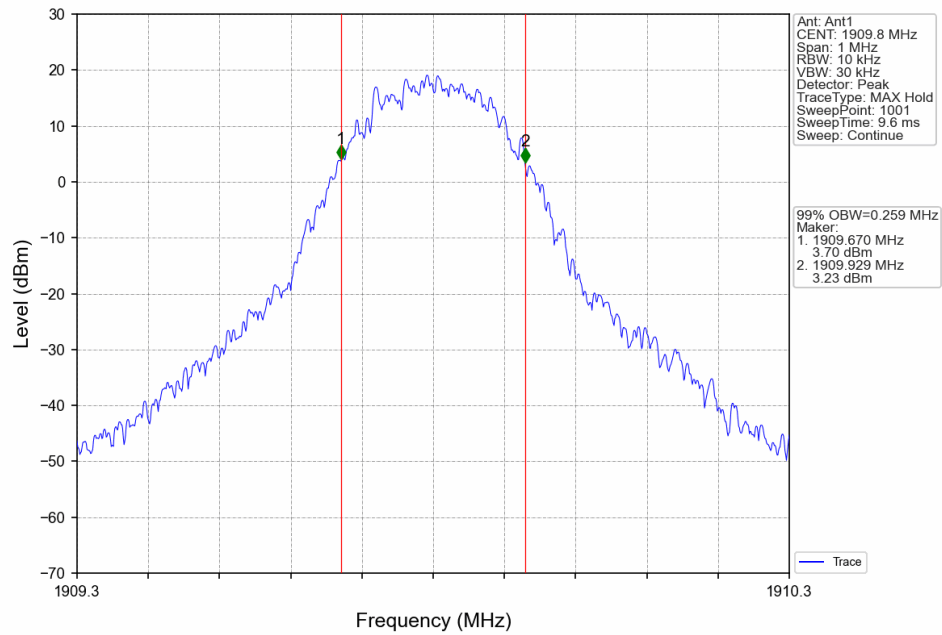
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

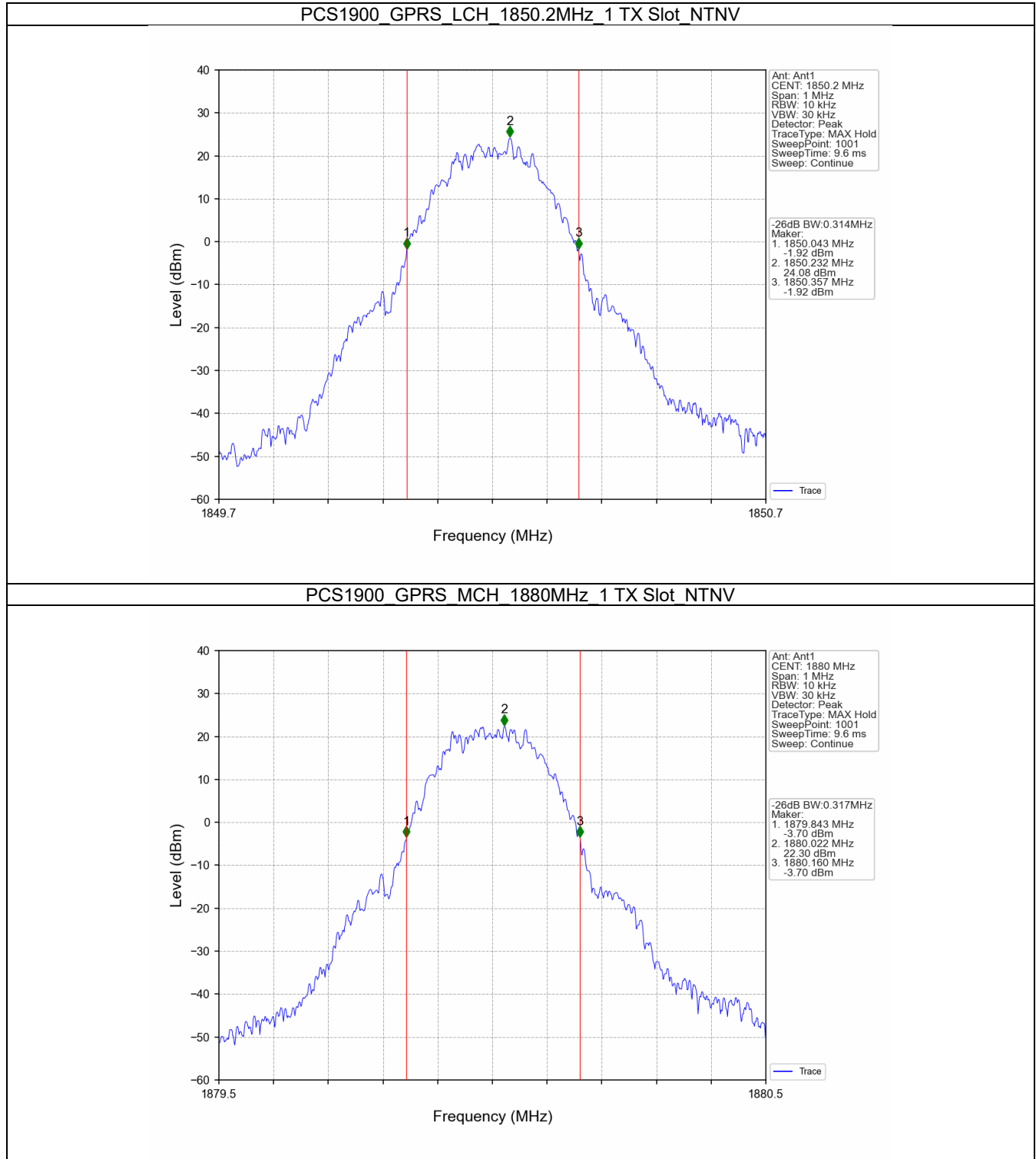


4.2 PCS1900_XDB

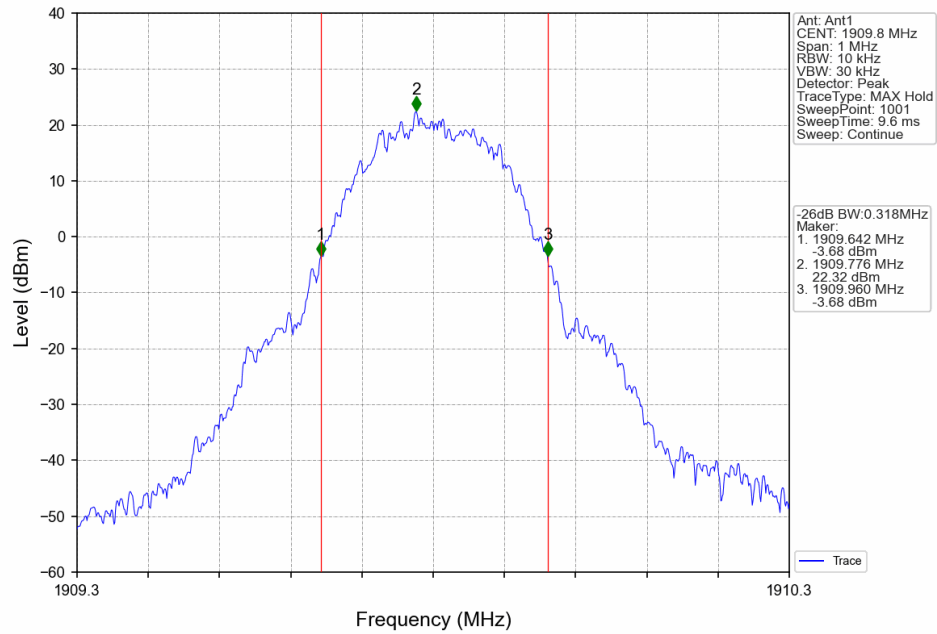
4.2.1 Test Result

Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GPRS	1 TX Slot	1850.2	0.314	Pass
			1880	0.317	Pass
			1909.8	0.318	Pass
	EGPRS	1 TX Slot	1850.2	0.344	Pass
			1880	0.335	Pass
			1909.8	0.344	Pass

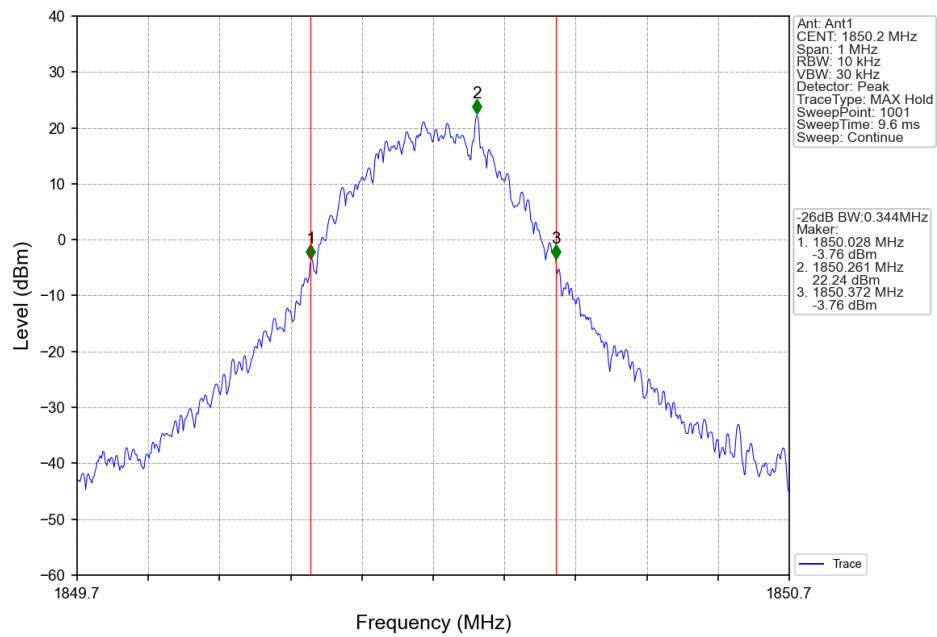
4.2.2 Test Graph



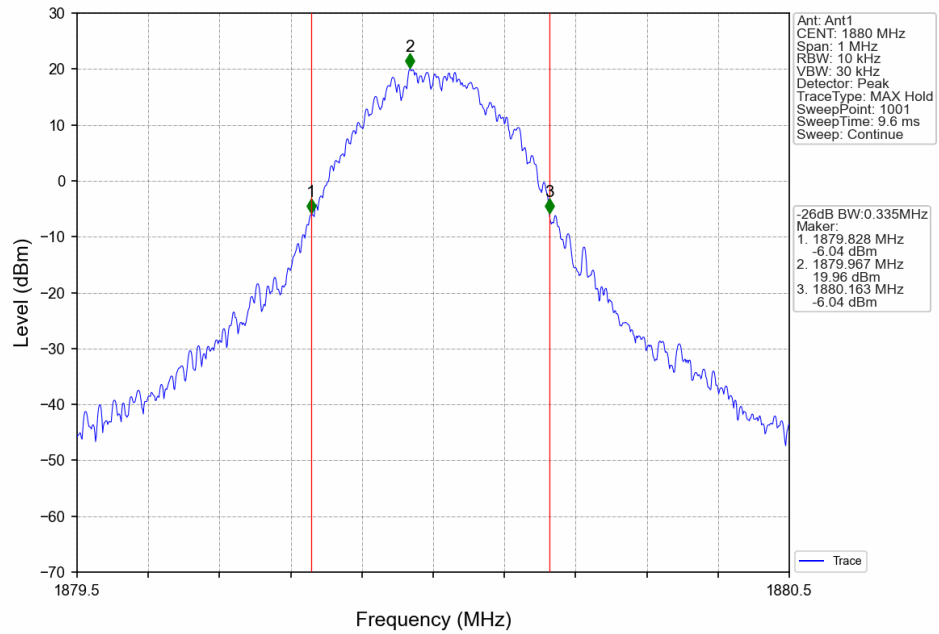
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



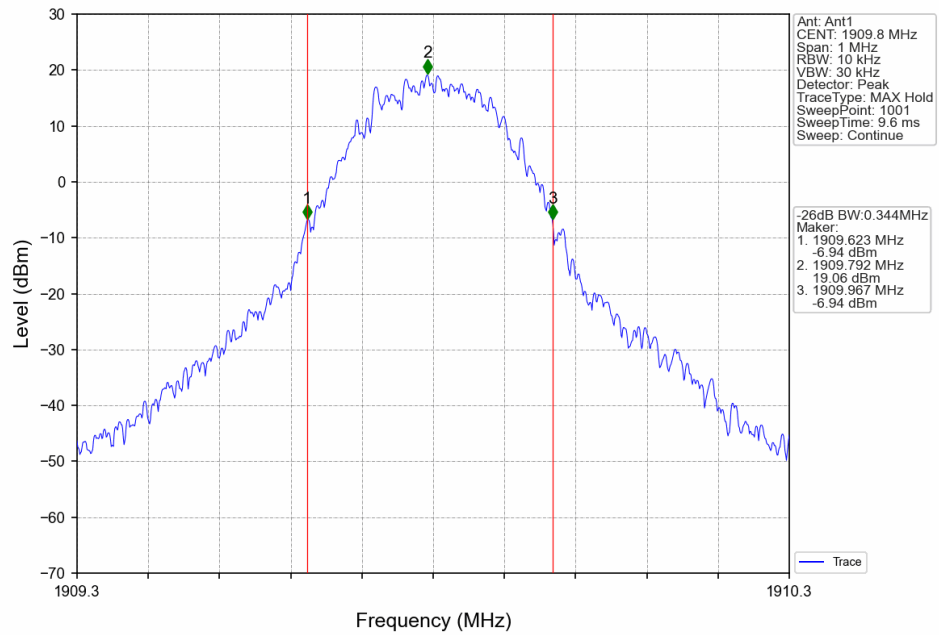
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



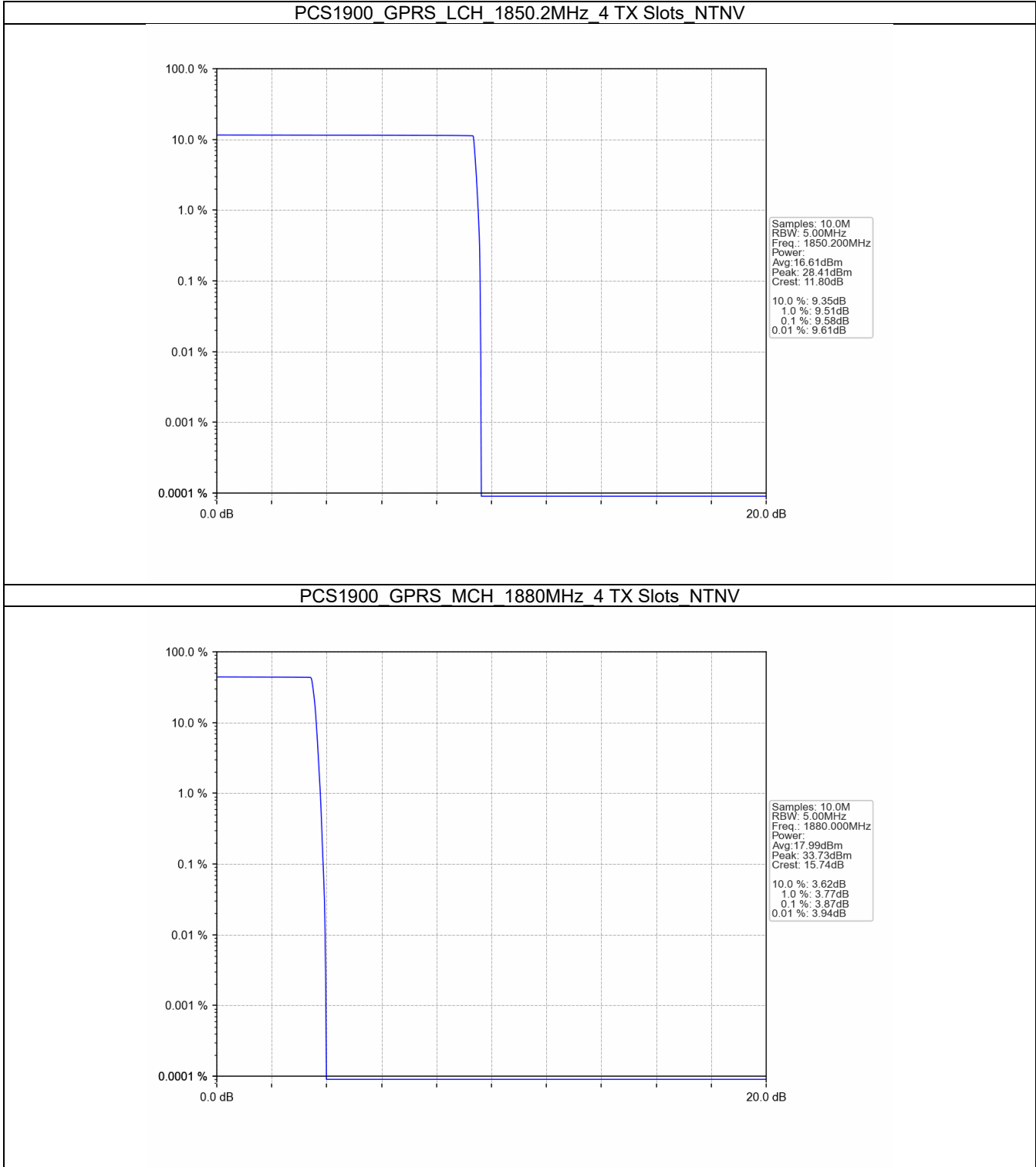
5. Peak-Average Ratio

5.1 PCS1900

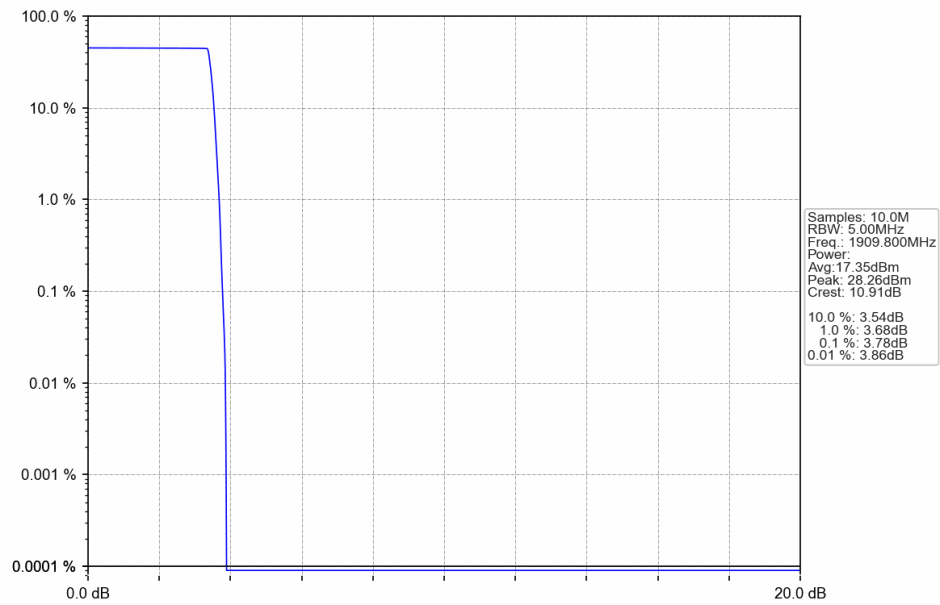
5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.58	<=13	Pass
			1880	3.87	<=13	Pass
			1909.8	3.78	<=13	Pass
	EGPRS	4 TX Slots	1850.2	11.78	<=13	Pass
			1880	6.70	<=13	Pass
			1909.8	6.71	<=13	Pass

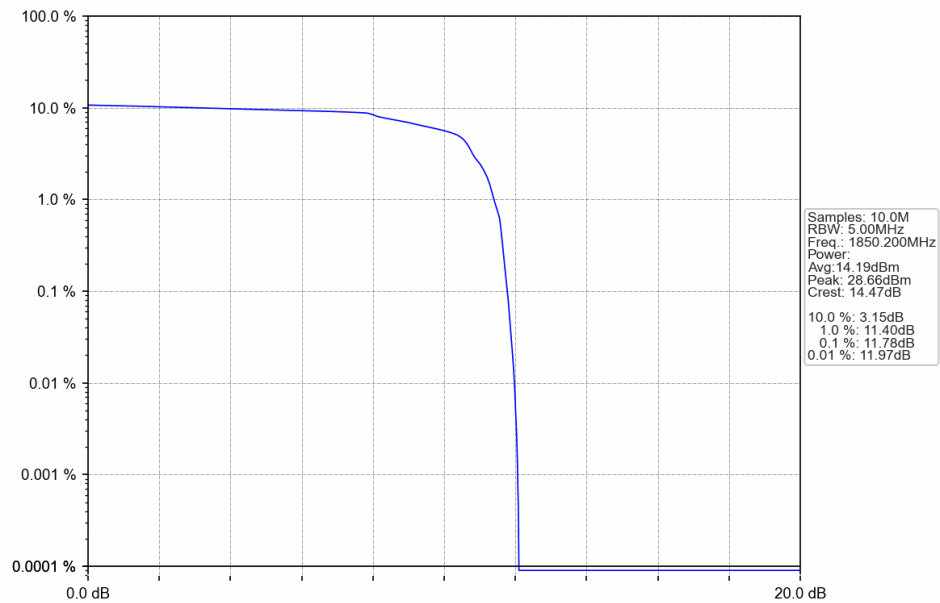
5.1.2 Test Graph



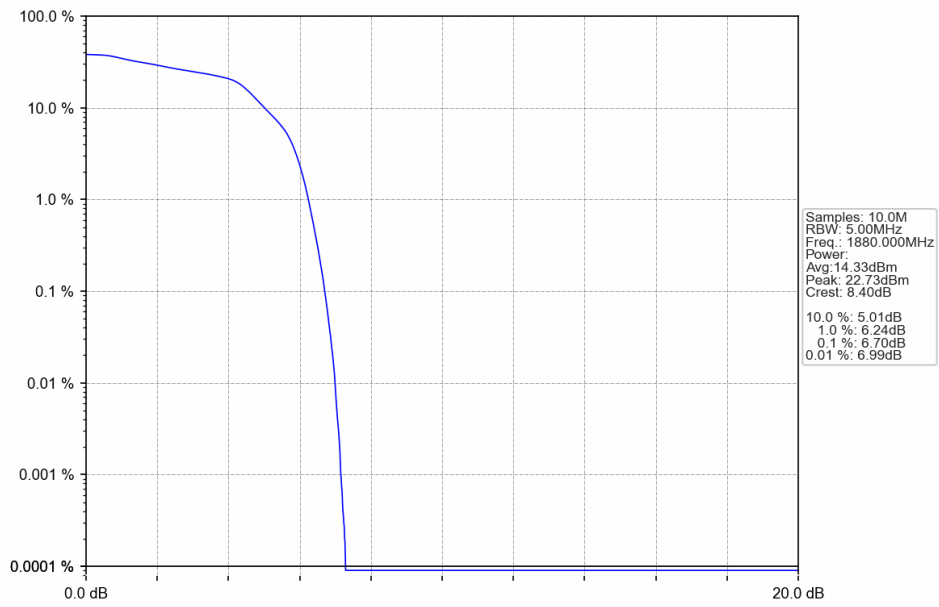
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



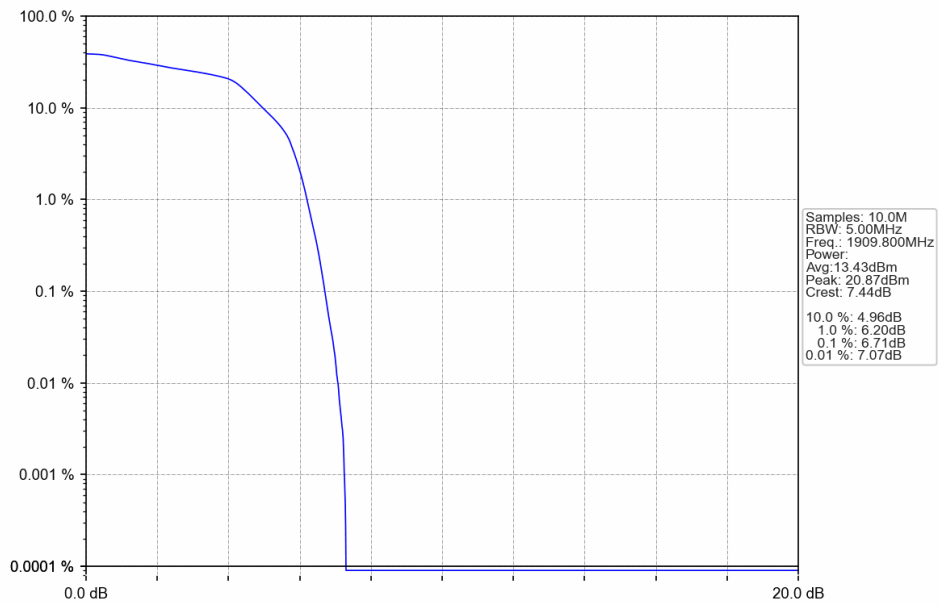
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



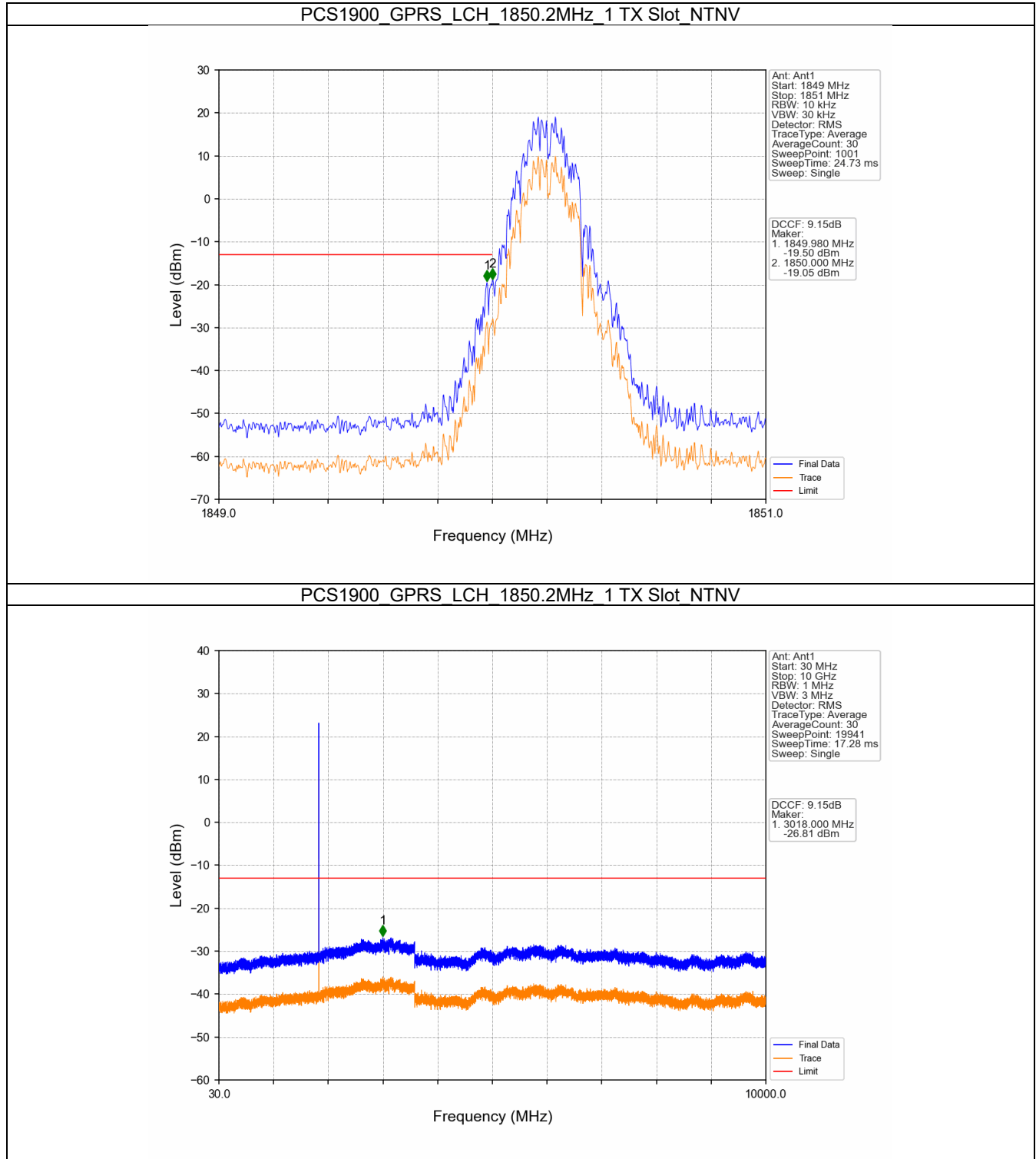
6. Spurious Emission

6.1 PCS1900

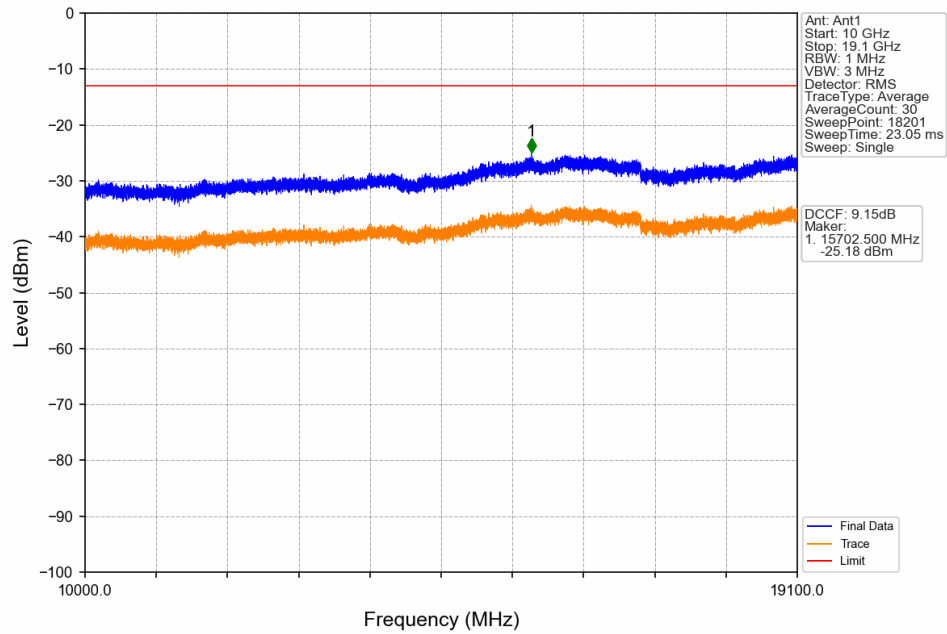
6.1.1 Test Result

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

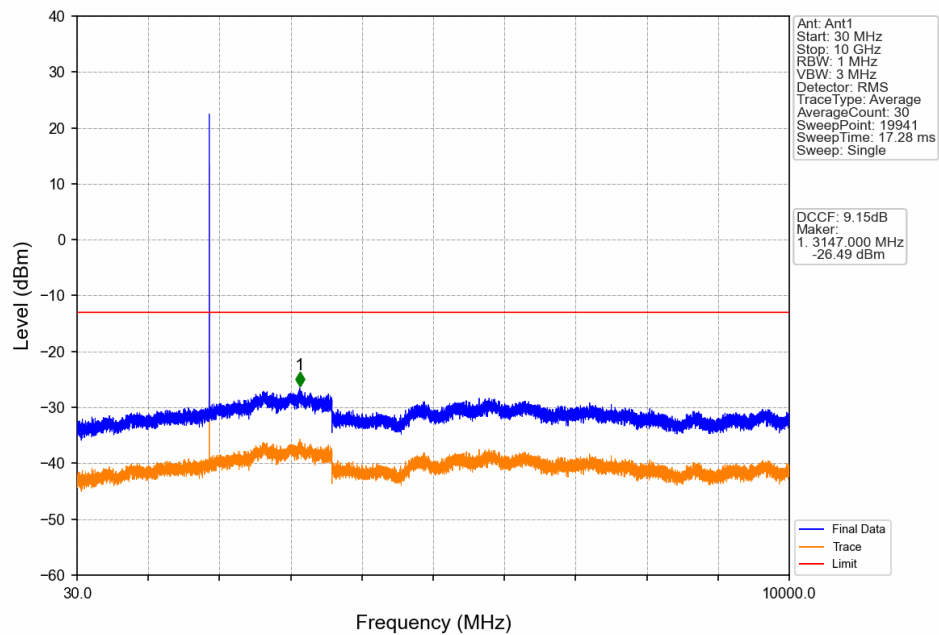
6.1.2 Test Graph



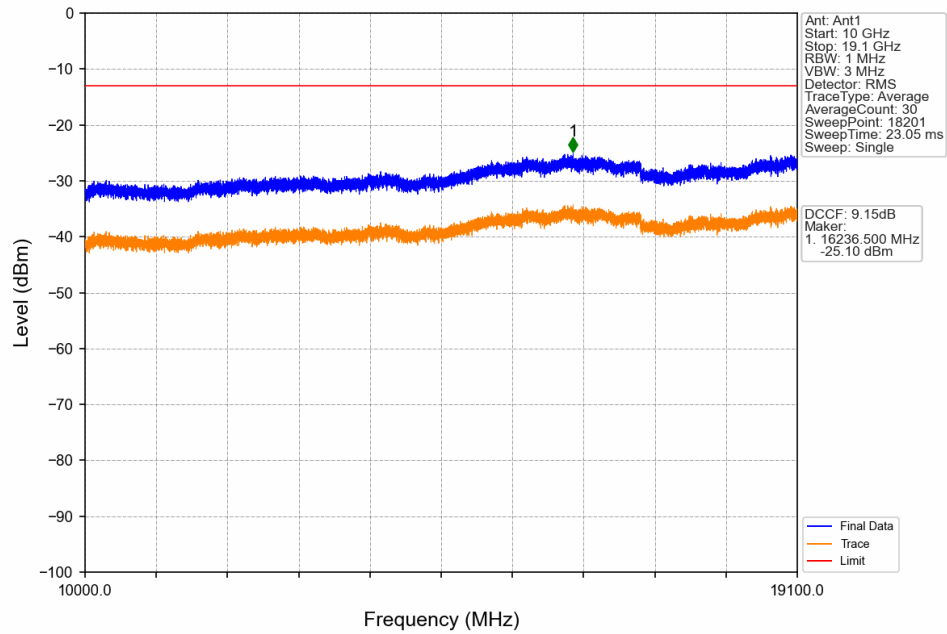
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



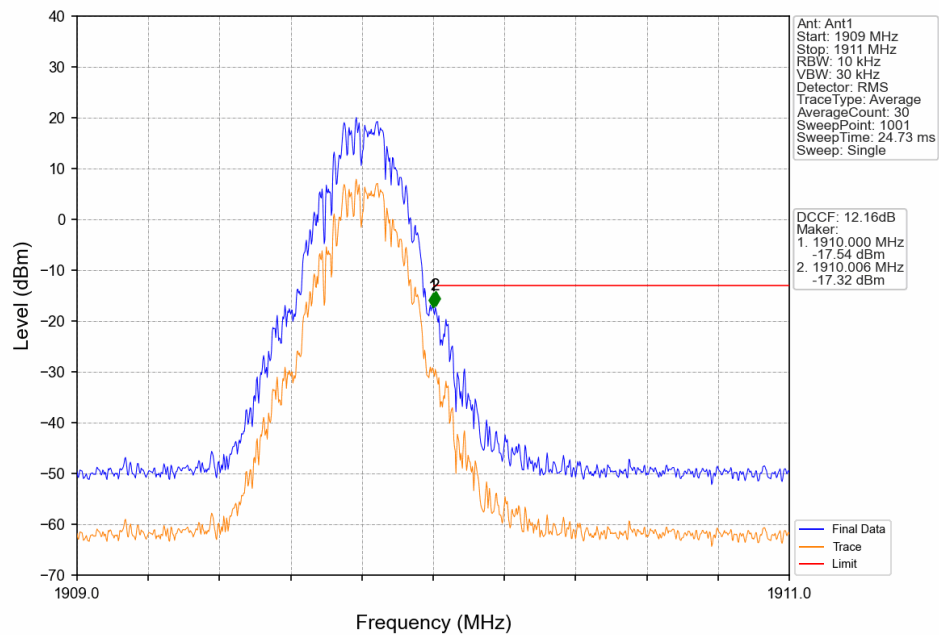
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



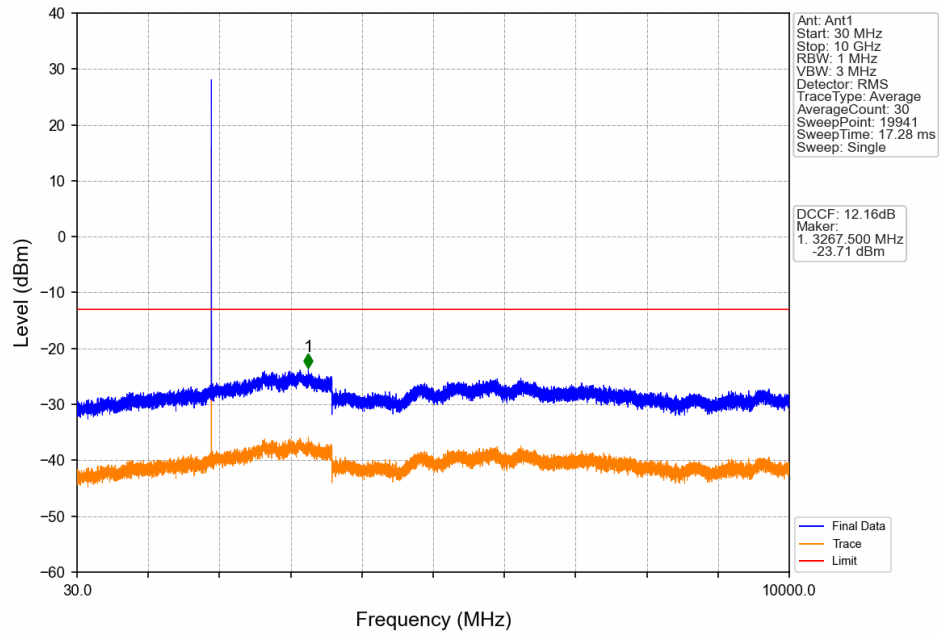
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



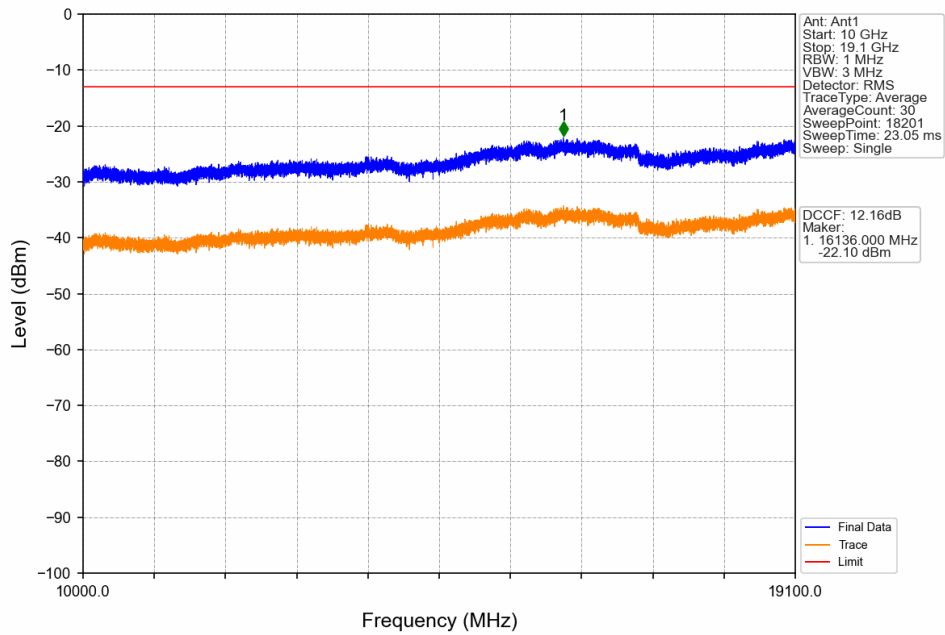
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



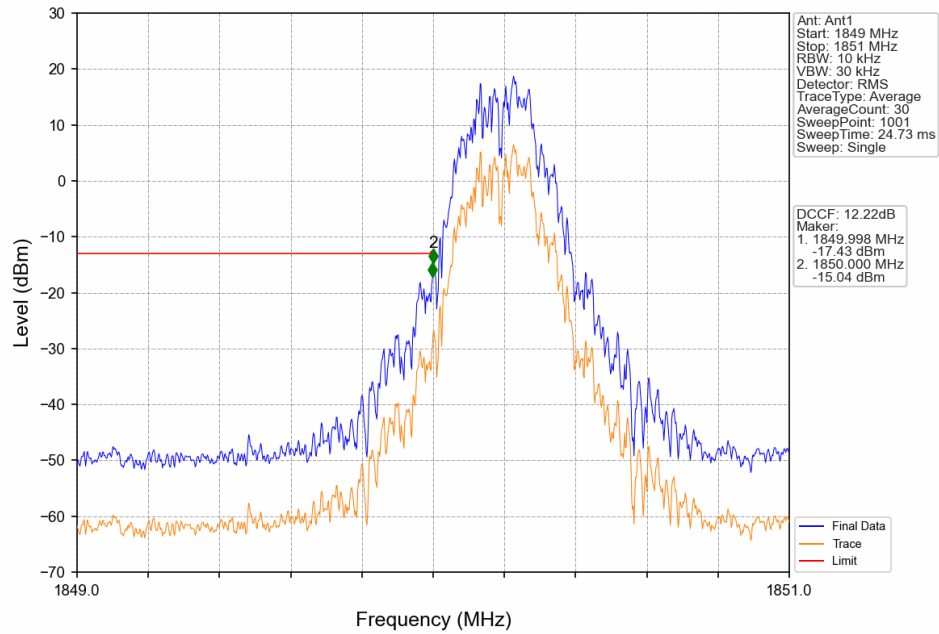
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



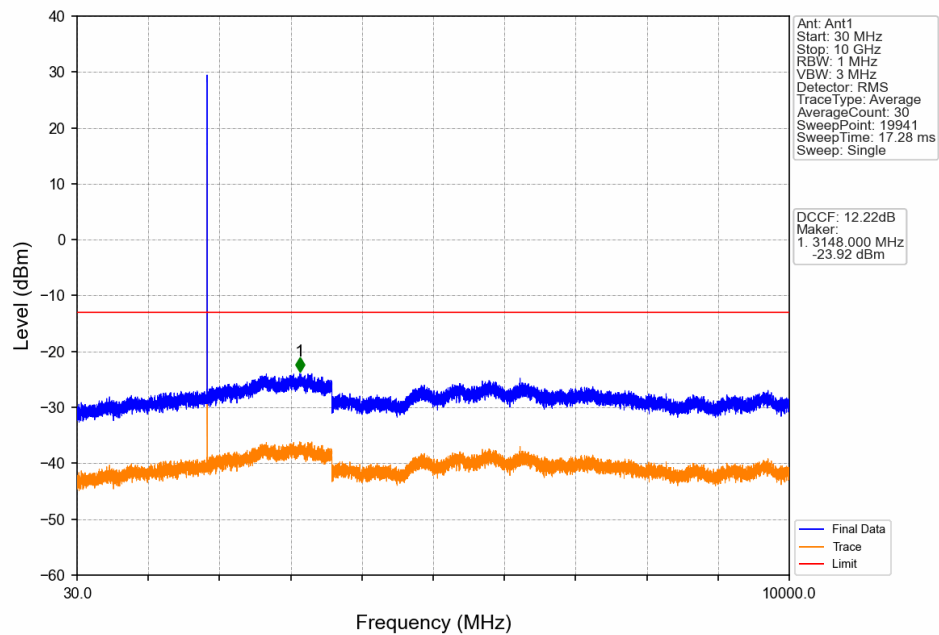
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



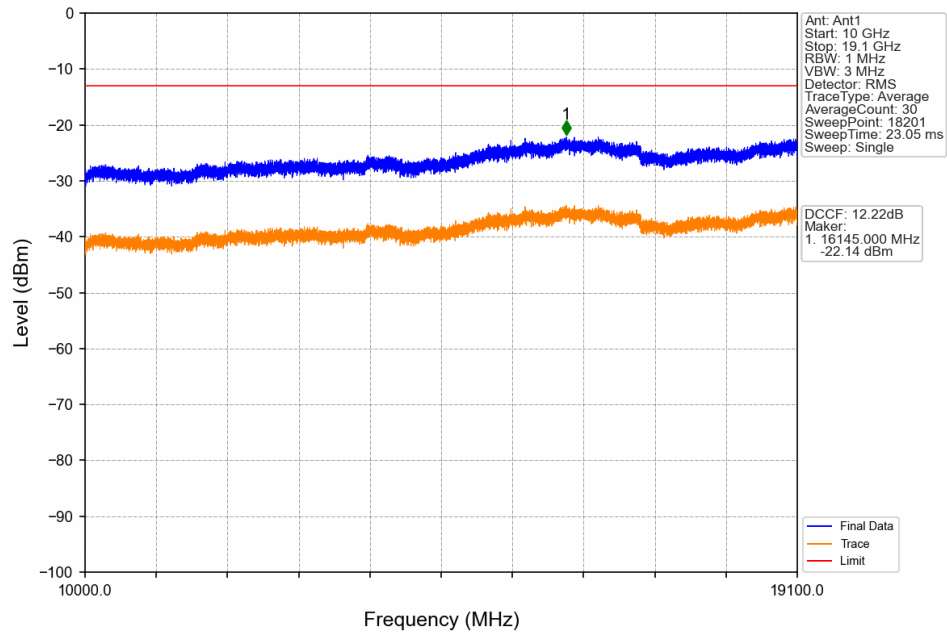
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



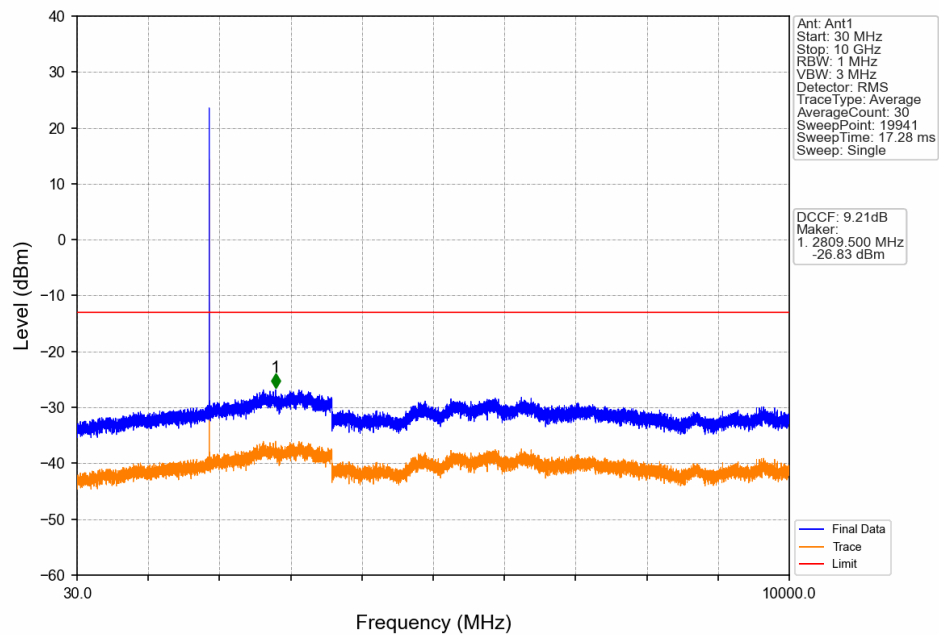
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



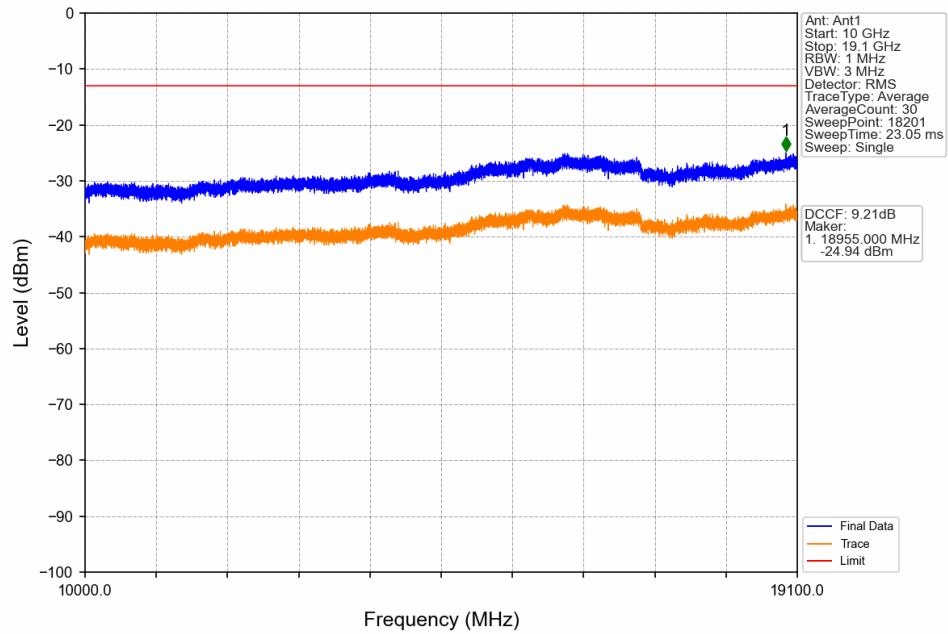
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



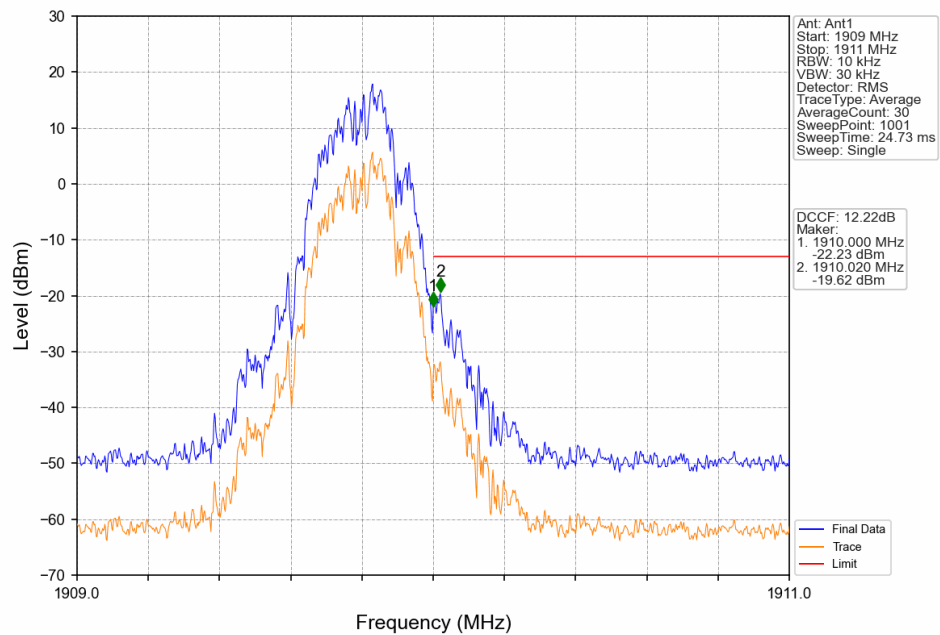
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



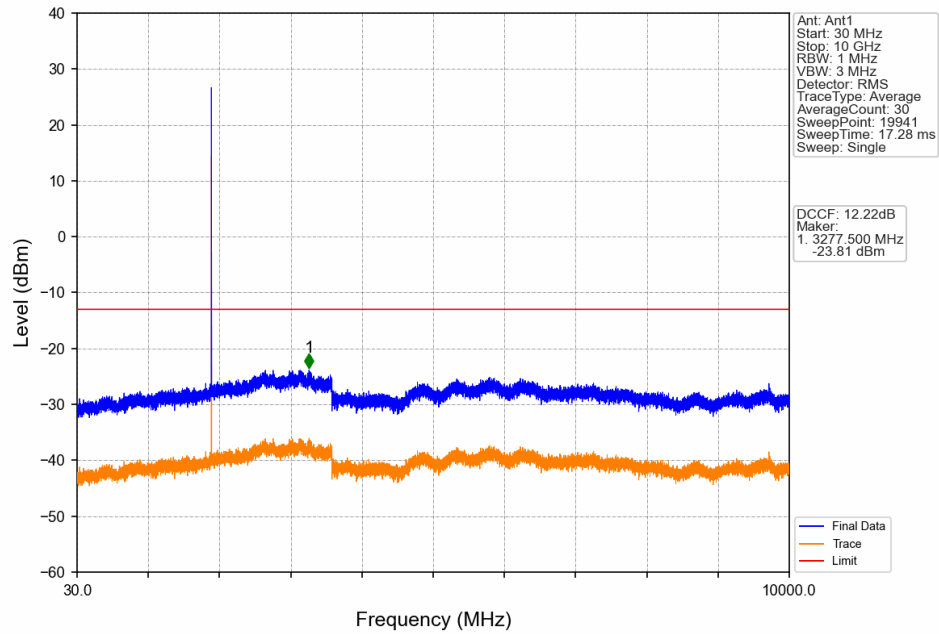
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



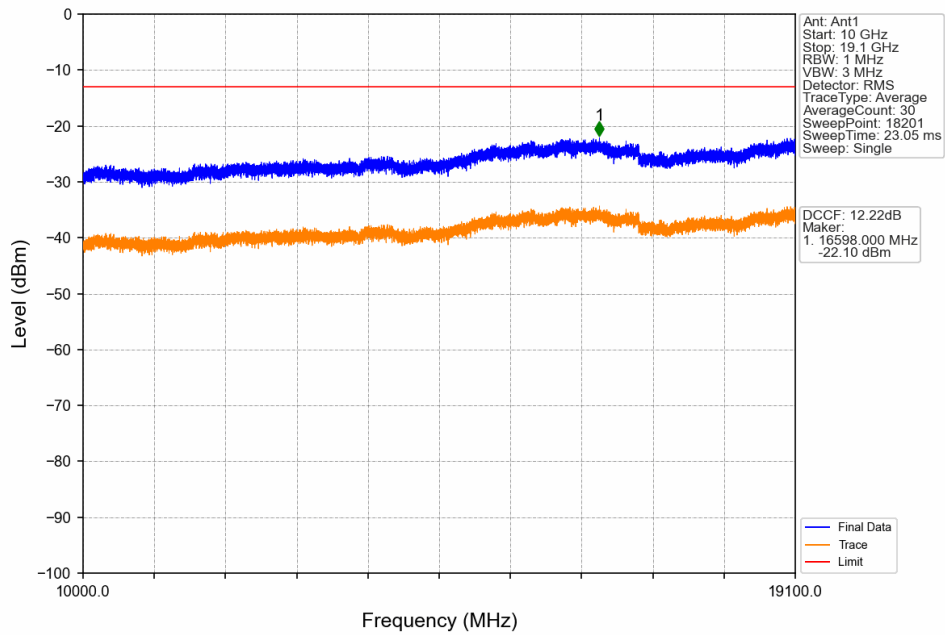
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
PCS1900	0.2	1850.2	1909.8	0.5916	0.0142	ppm	248KGXW	24E	27.72
PCS1900	0.2	1850.2	1909.8	0.3622	0.0144	ppm	267KG7W	24E	25.59

7.2 Form731_EIRP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
PCS1900	0.2	1850.2	1909.8	0.6714	0.0142	ppm	248KGXW	24E	28.27
PCS1900	0.2	1850.2	1909.8	0.4111	0.0144	ppm	267KG7W	24E	26.14