

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	29.75	2.67	32.42	<=33.01	Pass
		2 TX Slots	1850.2	28.69	2.67	31.36	<=33.01	Pass
		3 TX Slots	1850.2	26.74	2.67	29.41	<=33.01	Pass
		4 TX Slots	1850.2	25.85	2.67	28.52	<=33.01	Pass
		1 TX Slot	1880	29.56	2.67	32.23	<=33.01	Pass
		2 TX Slots	1880	28.47	2.67	31.14	<=33.01	Pass
		3 TX Slots	1880	26.50	2.67	29.17	<=33.01	Pass
		4 TX Slots	1880	25.64	2.67	28.31	<=33.01	Pass
		1 TX Slot	1909.8	29.73	2.67	32.40	<=33.01	Pass
		2 TX Slots	1909.8	28.61	2.67	31.28	<=33.01	Pass
		3 TX Slots	1909.8	26.54	2.67	29.21	<=33.01	Pass
		4 TX Slots	1909.8	25.63	2.67	28.30	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	27.95	2.67	30.62	<=33.01	Pass
		2 TX Slots	1850.2	26.94	2.67	29.61	<=33.01	Pass
		3 TX Slots	1850.2	24.88	2.67	27.55	<=33.01	Pass
		4 TX Slots	1850.2	23.41	2.67	26.08	<=33.01	Pass
		1 TX Slot	1880	27.31	2.67	29.98	<=33.01	Pass
		2 TX Slots	1880	26.35	2.67	29.02	<=33.01	Pass
		3 TX Slots	1880	24.59	2.67	27.26	<=33.01	Pass
		4 TX Slots	1880	23.80	2.67	26.47	<=33.01	Pass
		1 TX Slot	1909.8	26.90	2.67	29.57	<=33.01	Pass
		2 TX Slots	1909.8	25.93	2.67	28.60	<=33.01	Pass
		3 TX Slots	1909.8	23.90	2.67	26.57	<=33.01	Pass
		4 TX Slots	1909.8	22.44	2.67	25.11	<=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	3.40	-1.162	-0.0006	-2.5 to 2.5	Pass
			3.60	-2.002	-0.0011	-2.5 to 2.5	Pass
			4.20	1.517	0.0008	-2.5 to 2.5	Pass
		-30	3.60	15.465	0.0084	-2.5 to 2.5	Pass
		-20	3.60	6.328	0.0034	-2.5 to 2.5	Pass
		-10	3.60	1.614	0.0009	-2.5 to 2.5	Pass
		0	3.60	9.653	0.0052	-2.5 to 2.5	Pass
		10	3.60	6.554	0.0035	-2.5 to 2.5	Pass
		30	3.60	6.328	0.0034	-2.5 to 2.5	Pass
		40	3.60	7.878	0.0043	-2.5 to 2.5	Pass
		50	3.60	3.551	0.0019	-2.5 to 2.5	Pass
	1880	20	3.40	1.776	0.0009	-2.5 to 2.5	Pass
			3.60	-1.033	-0.0005	-2.5 to 2.5	Pass
			4.20	-4.714	-0.0025	-2.5 to 2.5	Pass
		-30	3.60	-0.032	0.0000	-2.5 to 2.5	Pass
		-20	3.60	1.195	0.0006	-2.5 to 2.5	Pass
		-10	3.60	-3.971	-0.0021	-2.5 to 2.5	Pass
		0	3.60	-3.681	-0.0020	-2.5 to 2.5	Pass
		10	3.60	-2.841	-0.0015	-2.5 to 2.5	Pass
		30	3.60	-6.586	-0.0035	-2.5 to 2.5	Pass
		40	3.60	-4.843	-0.0026	-2.5 to 2.5	Pass
		50	3.60	-5.585	-0.0030	-2.5 to 2.5	Pass
	1909.8	20	3.40	-10.525	-0.0055	-2.5 to 2.5	Pass
			3.60	-13.754	-0.0072	-2.5 to 2.5	Pass
			4.20	-10.428	-0.0055	-2.5 to 2.5	Pass
		-30	3.60	-10.396	-0.0054	-2.5 to 2.5	Pass
		-20	3.60	-18.080	-0.0095	-2.5 to 2.5	Pass
		-10	3.60	-19.081	-0.0100	-2.5 to 2.5	Pass
		0	3.60	-10.783	-0.0056	-2.5 to 2.5	Pass
		10	3.60	-11.332	-0.0059	-2.5 to 2.5	Pass
		30	3.60	-8.491	-0.0044	-2.5 to 2.5	Pass
		40	3.60	-7.361	-0.0039	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.40	-7.781	-0.0042	-2.5 to 2.5	Pass
			3.60	-3.745	-0.0020	-2.5 to 2.5	Pass
			4.20	-7.652	-0.0041	-2.5 to 2.5	Pass
		-30	3.60	-2.421	-0.0013	-2.5 to 2.5	Pass
		-20	3.60	9.105	0.0049	-2.5 to 2.5	Pass
		-10	3.60	-13.334	-0.0072	-2.5 to 2.5	Pass
		0	3.60	-15.207	-0.0082	-2.5 to 2.5	Pass
		10	3.60	3.003	0.0016	-2.5 to 2.5	Pass
		30	3.60	2.518	0.0014	-2.5 to 2.5	Pass
		40	3.60	-5.263	-0.0028	-2.5 to 2.5	Pass
		50	3.60	-10.816	-0.0058	-2.5 to 2.5	Pass
	1880	20	3.40	-8.491	-0.0045	-2.5 to 2.5	Pass
			3.60	-1.098	-0.0006	-2.5 to 2.5	Pass
			4.20	-15.110	-0.0080	-2.5 to 2.5	Pass
		-30	3.60	-1.001	-0.0005	-2.5 to 2.5	Pass
		-20	3.60	-1.711	-0.0009	-2.5 to 2.5	Pass

		-10	3.60	-9.169	-0.0049	-2.5 to 2.5	Pass
		0	3.60	-17.047	-0.0091	-2.5 to 2.5	Pass
		10	3.60	12.365	0.0066	-2.5 to 2.5	Pass
		30	3.60	6.489	0.0035	-2.5 to 2.5	Pass
		40	3.60	-13.140	-0.0070	-2.5 to 2.5	Pass
		50	3.60	-7.975	-0.0042	-2.5 to 2.5	Pass
	1909.8	20	3.40	-6.554	-0.0034	-2.5 to 2.5	Pass
			3.60	-9.201	-0.0048	-2.5 to 2.5	Pass
			4.20	-14.755	-0.0077	-2.5 to 2.5	Pass
		-30	3.60	-6.619	-0.0035	-2.5 to 2.5	Pass
		-20	3.60	-16.627	-0.0087	-2.5 to 2.5	Pass
		-10	3.60	-1.162	-0.0006	-2.5 to 2.5	Pass
		0	3.60	-3.229	-0.0017	-2.5 to 2.5	Pass
		10	3.60	-3.164	-0.0017	-2.5 to 2.5	Pass
		30	3.60	-7.361	-0.0039	-2.5 to 2.5	Pass
		40	3.60	-7.975	-0.0042	-2.5 to 2.5	Pass
		50	3.60	-12.365	-0.0065	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 PCS1900_OBW

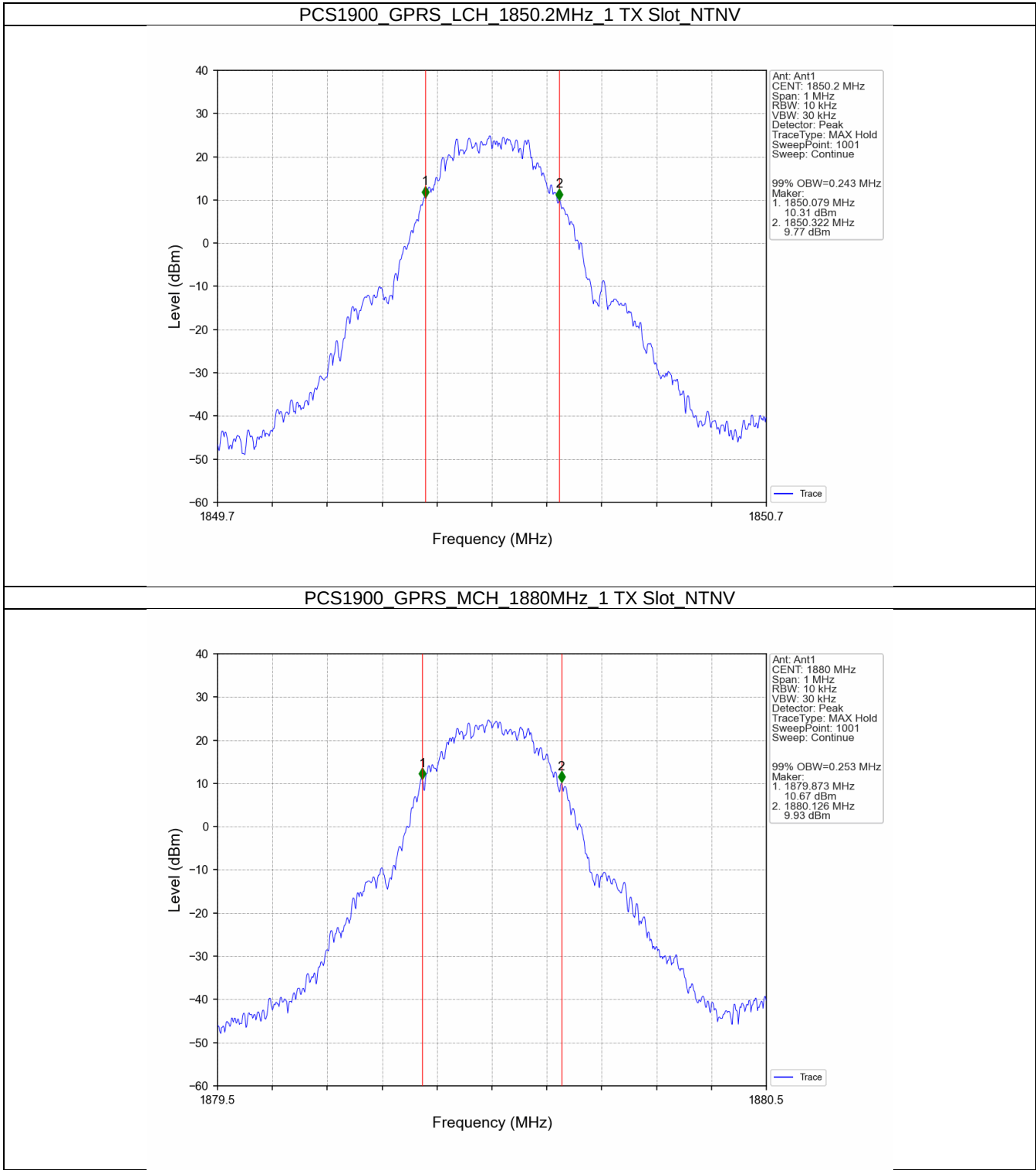
Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.243	/	Pass
			1880	0.253	/	Pass
			1909.8	0.243	/	Pass
	EGPRS	1 TX Slot	1850.2	0.242	/	Pass
			1880	0.248	/	Pass
			1909.8	0.244	/	Pass

3.1.2 PCS1900_XDB

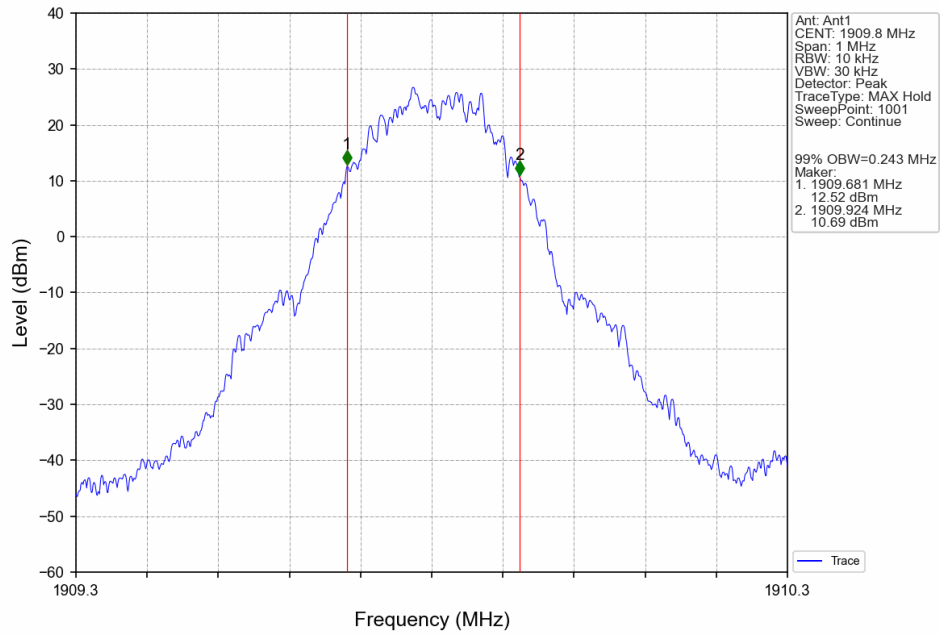
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.325	/	Pass
			1880	0.323	/	Pass
			1909.8	0.320	/	Pass
	EGPRS	1 TX Slot	1850.2	0.315	/	Pass
			1880	0.315	/	Pass
			1909.8	0.316	/	Pass

3.2 Test Graph

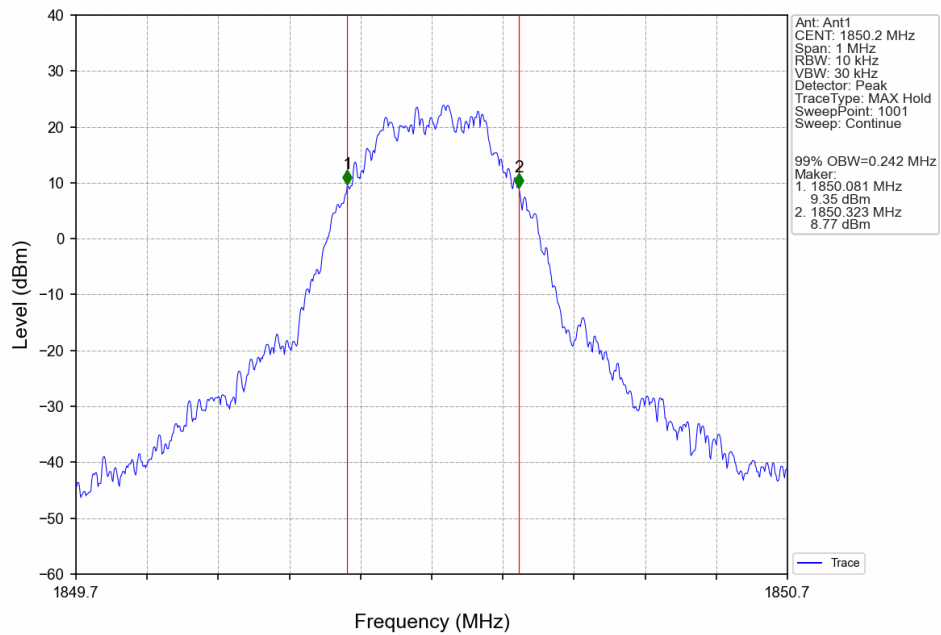
3.2.1 PCS1900_OBW



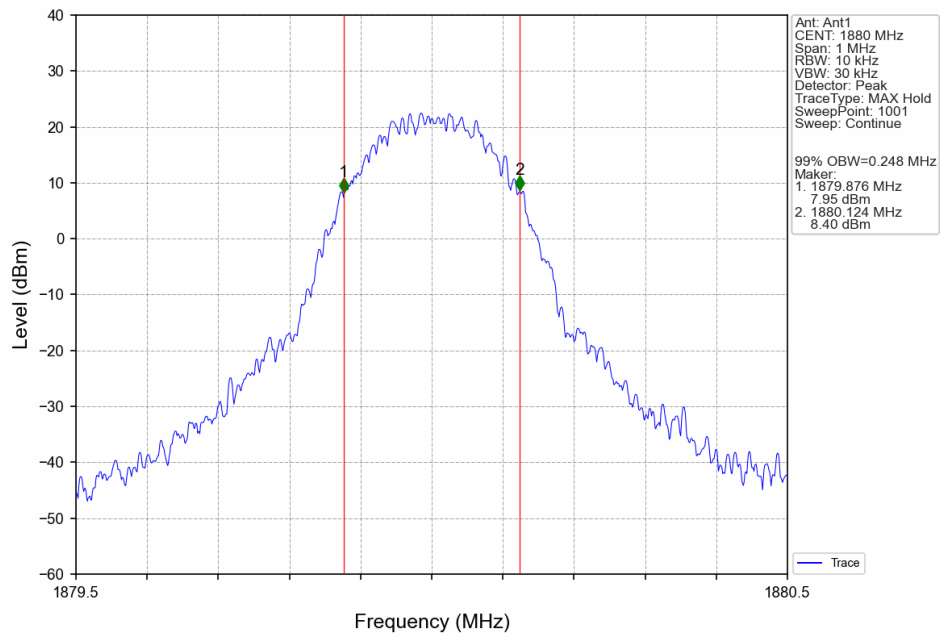
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



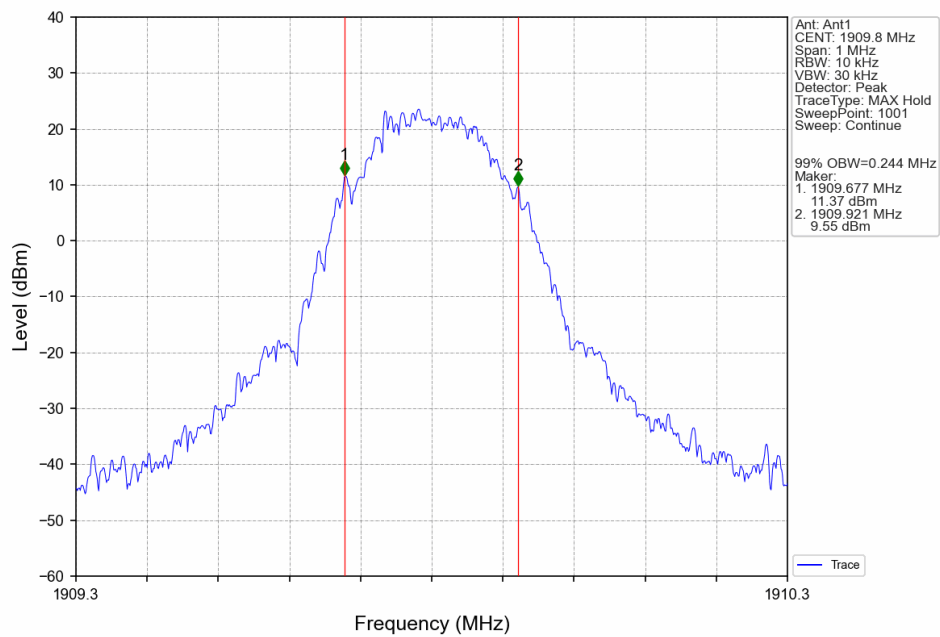
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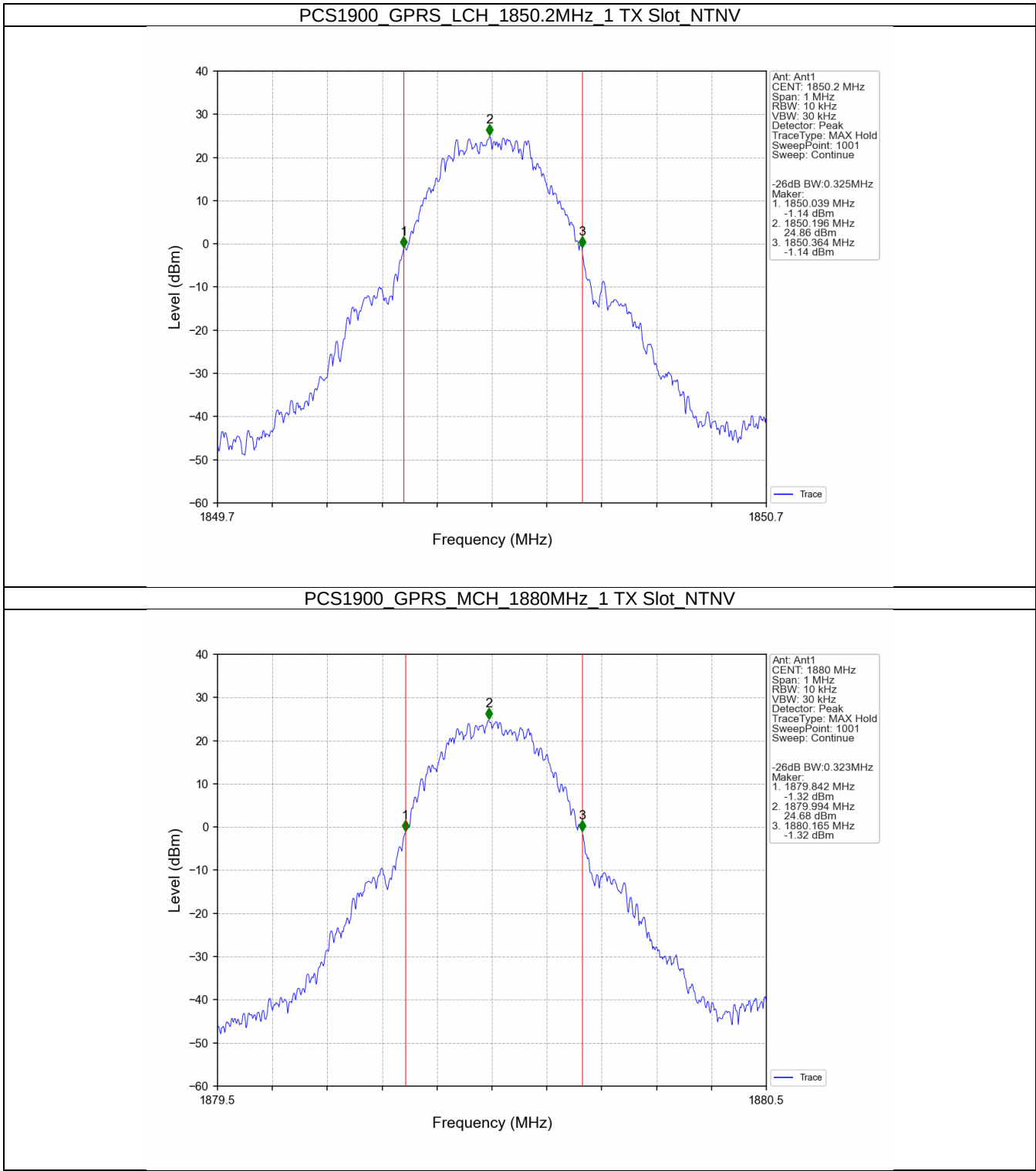
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



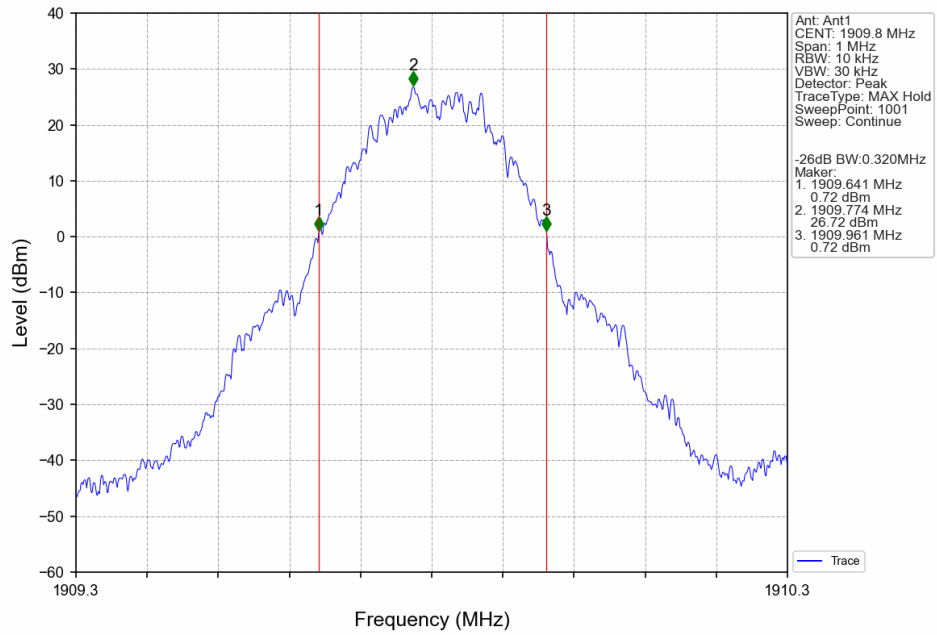
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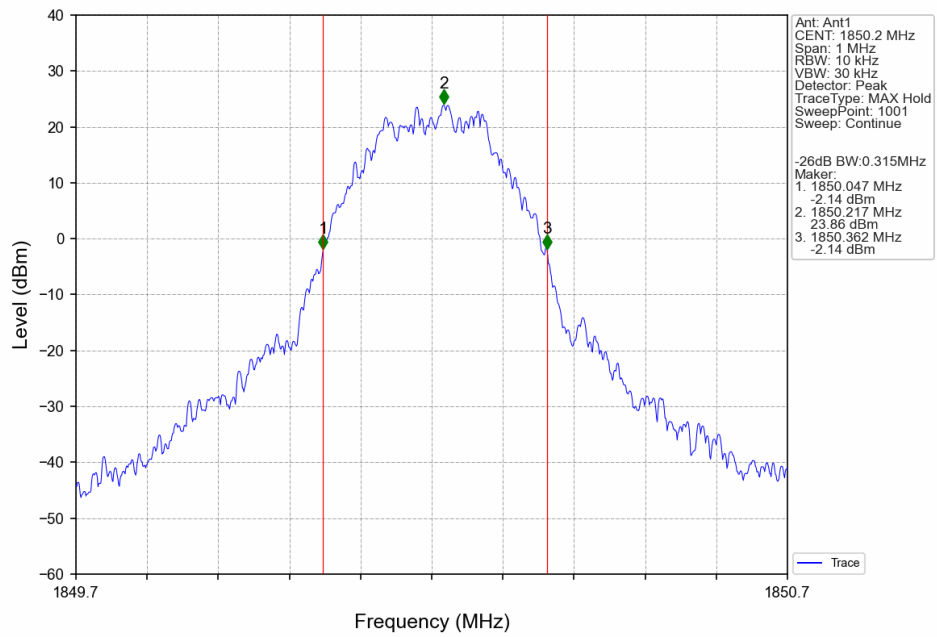
3.2.2 PCS1900_XDB



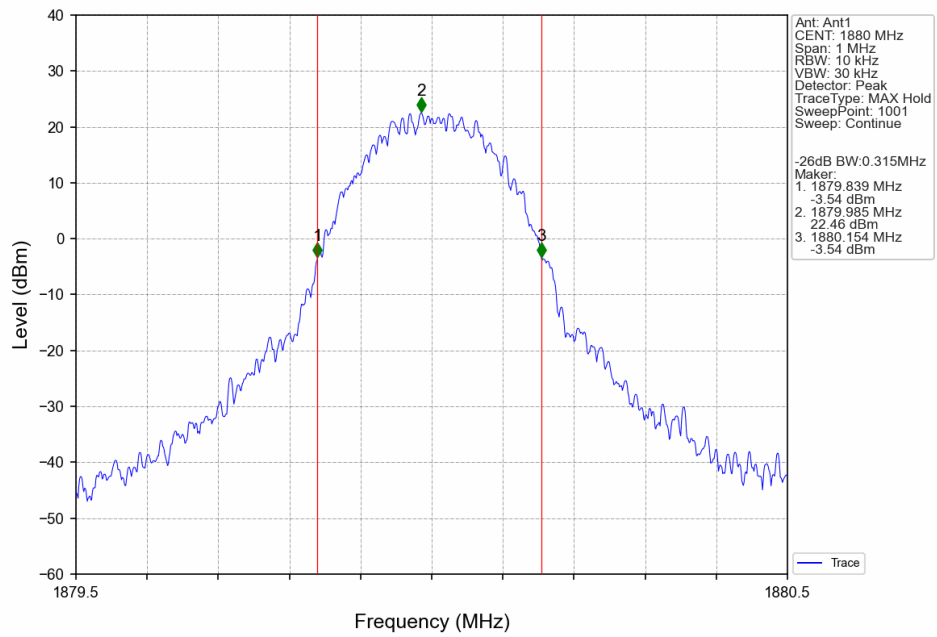
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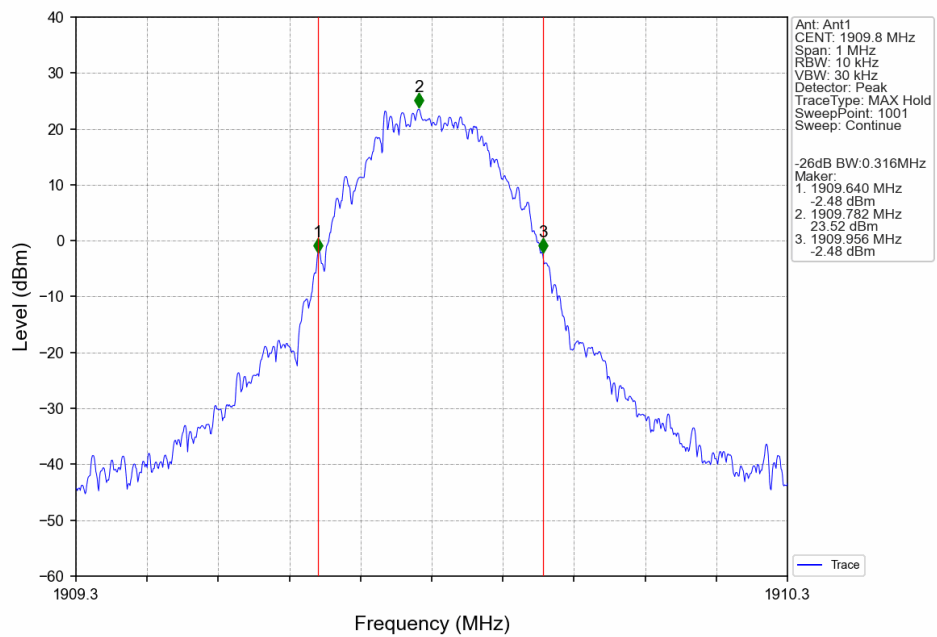
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PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



4. Peak-Average Ratio

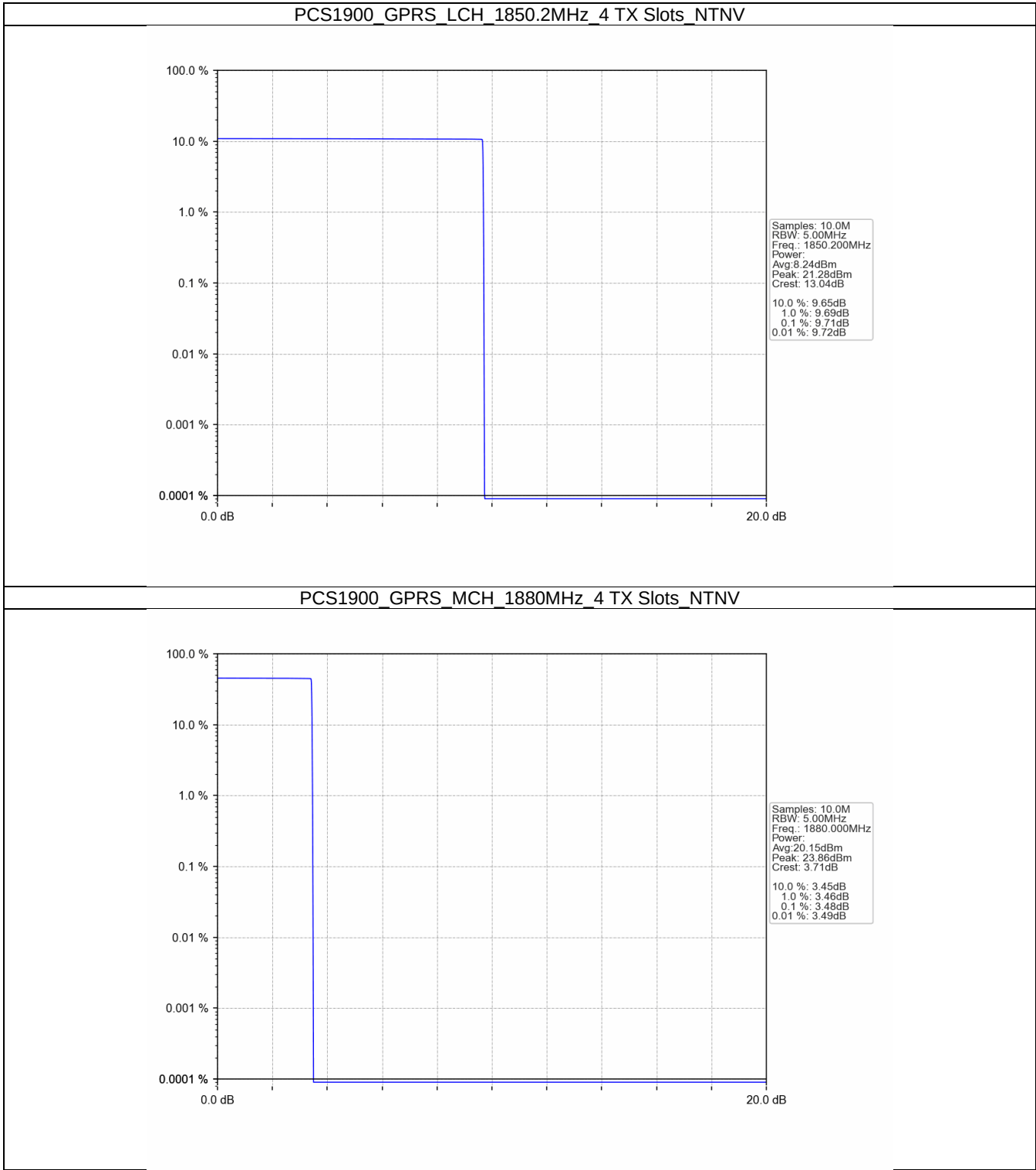
4.1 Test Result

4.1.1 PCS1900

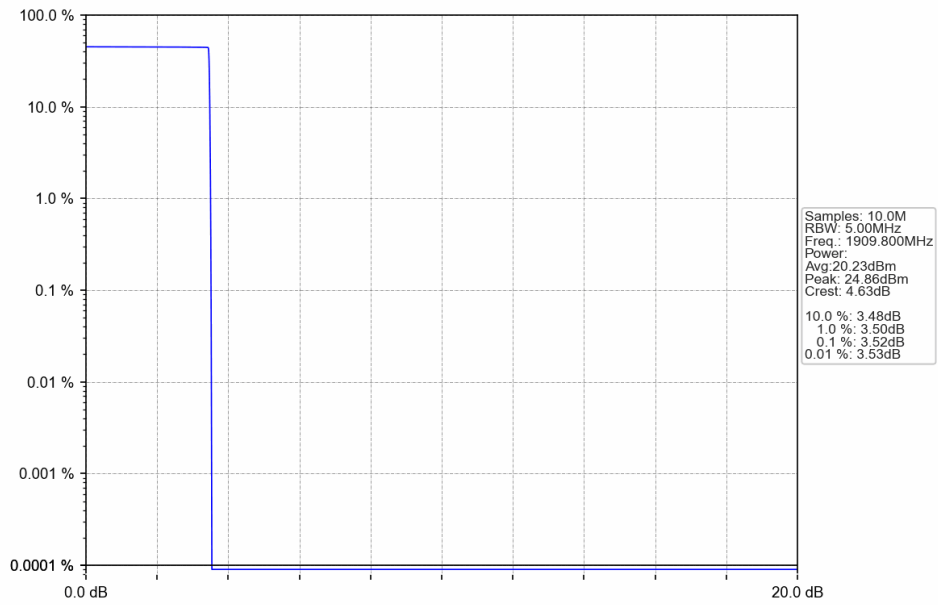
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	9.71	<=13	Pass
			1880	3.48	<=13	Pass
			1909.8	3.52	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.90	<=13	Pass
			1880	6.88	<=13	Pass
			1909.8	7.48	<=13	Pass

4.2 Test Graph

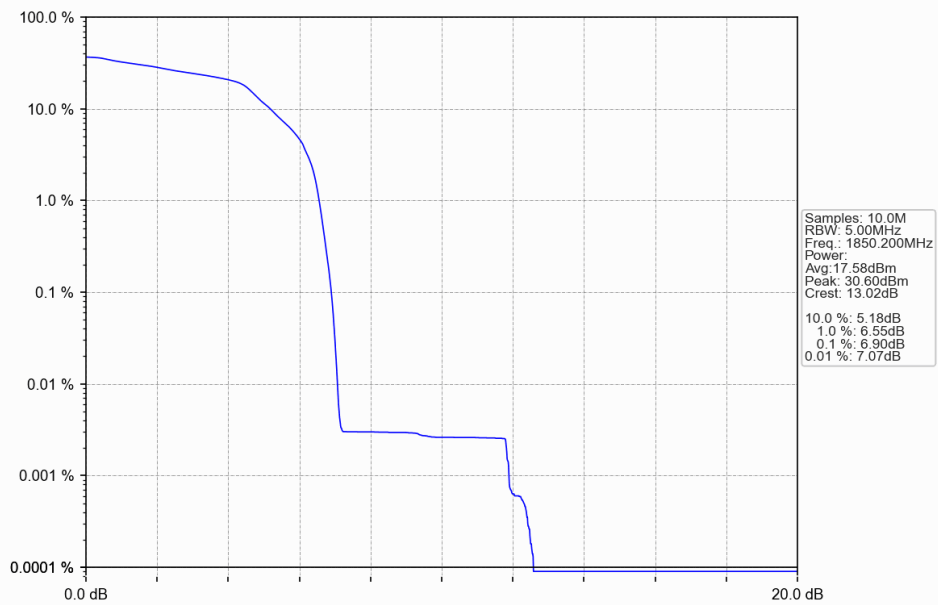
4.2.1 PCS1900



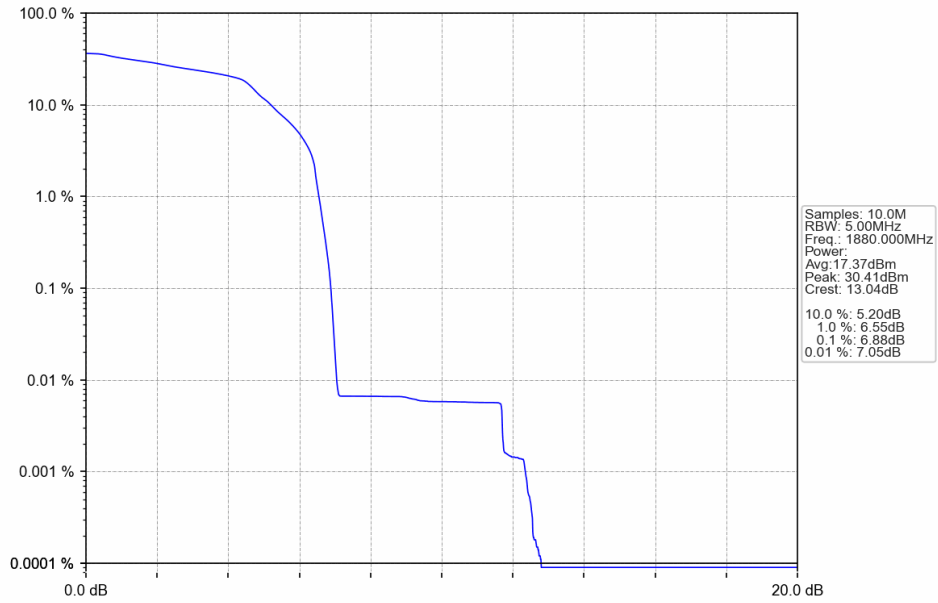
PCS1900 GPRS HCH 1909.8MHz 4 TX Slots NTNV



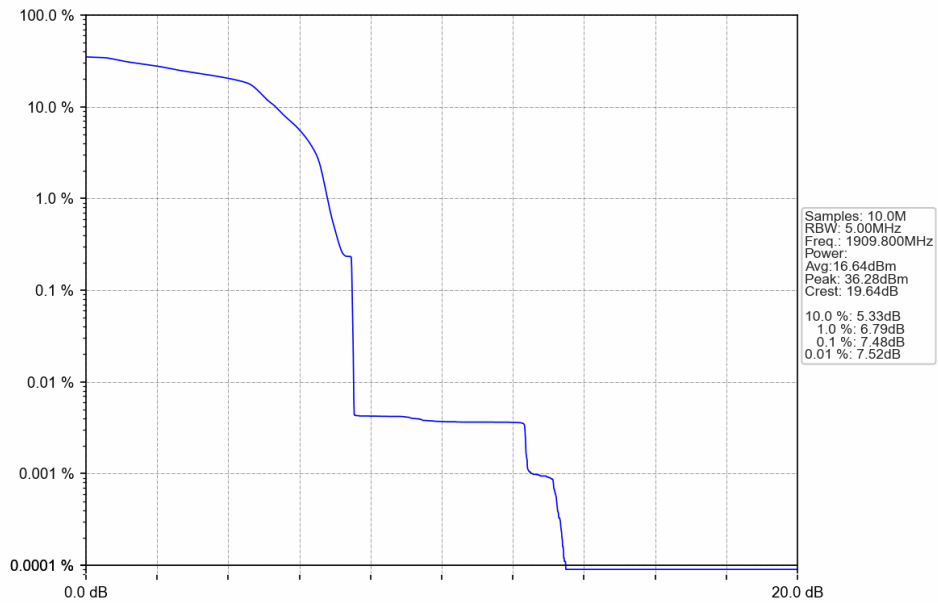
PCS1900 EGPRS LCH 1850.2MHz 4 TX Slots NTNV



PCS1900 EGPRS MCH 1880MHz 4 TX Slots NTN



PCS1900 EGPRS HCH 1909.8MHz 4 TX Slots NTN



5. Spurious Emission

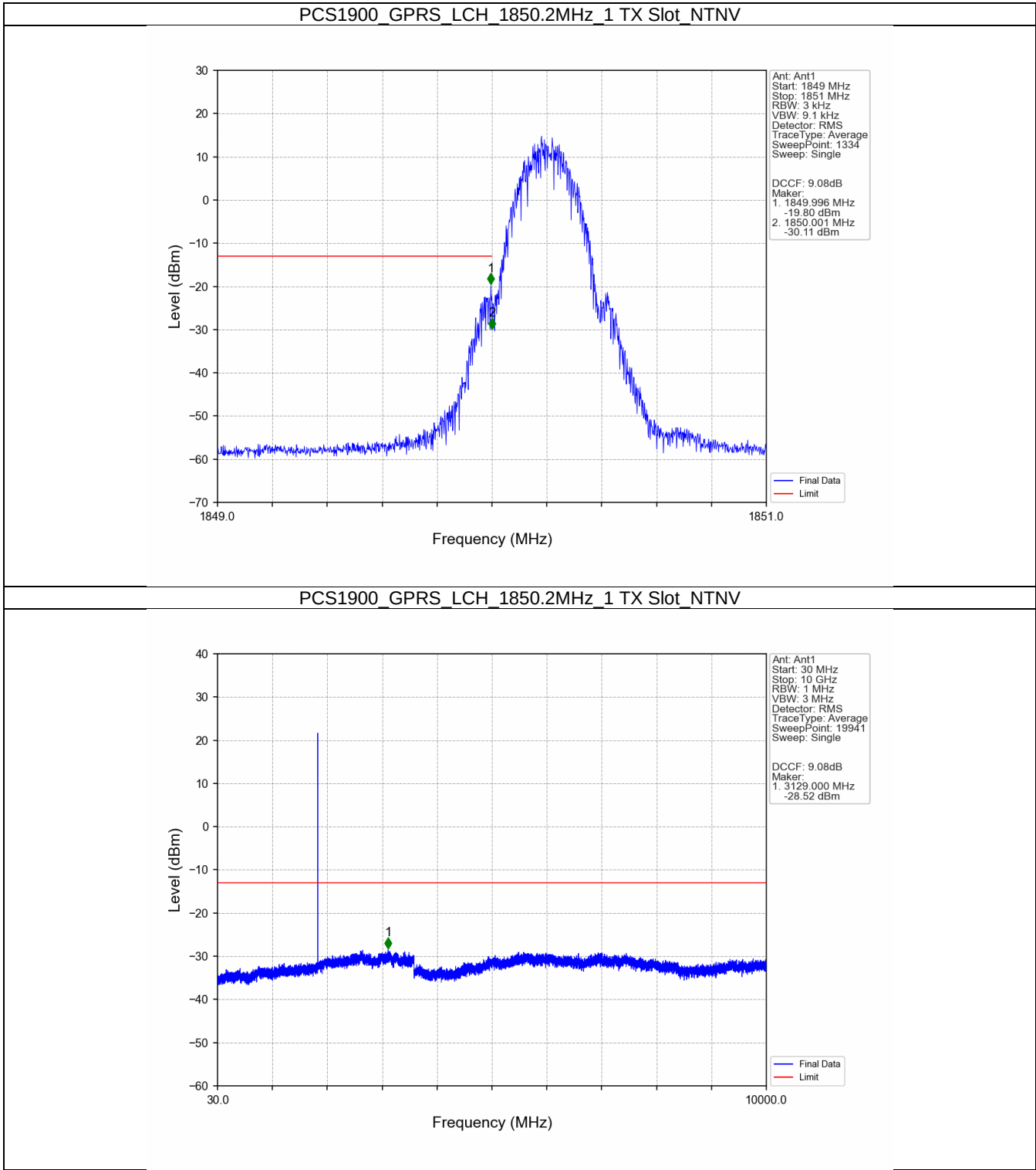
5.1 Test Result

5.1.1 PCS1900

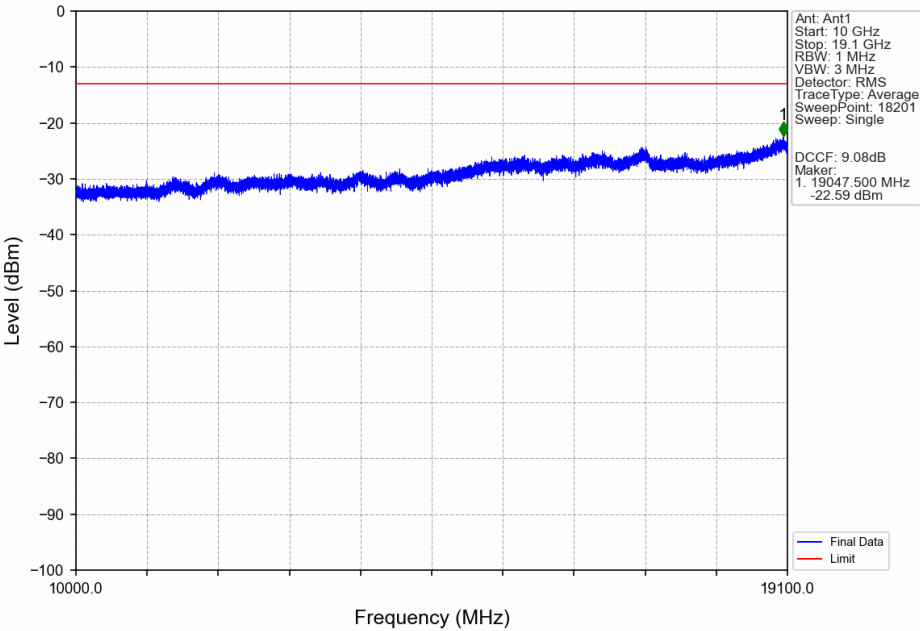
Band: PCS1900					
ENV	Mode		Frequency (MHz)	Spurious Emission	
	Network	Subset		Result	Limit
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8	Refer To Test Graph	Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass
			1880	Refer To Test Graph	Pass
			1909.8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

5.2 Test Graph

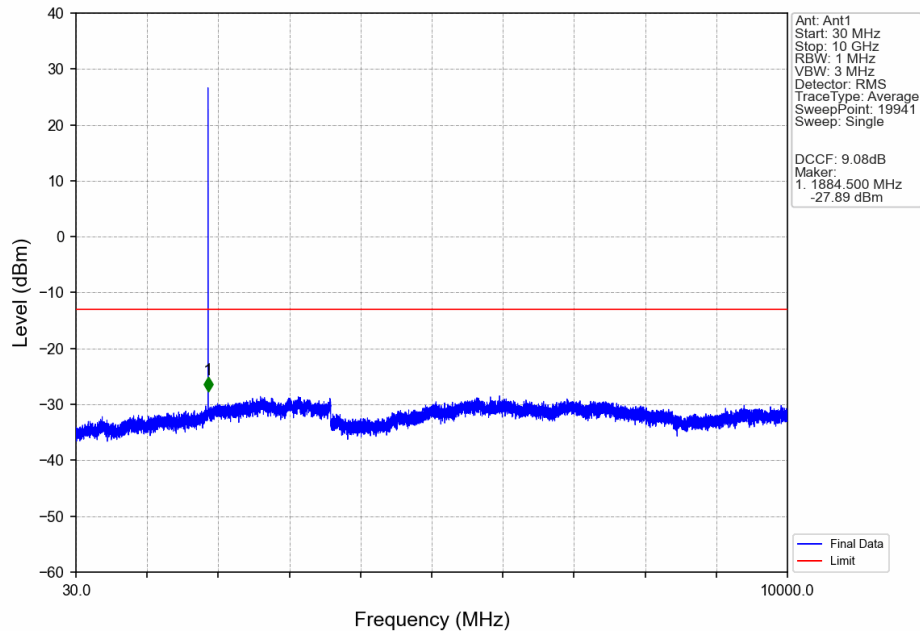
5.2.1 PCS1900



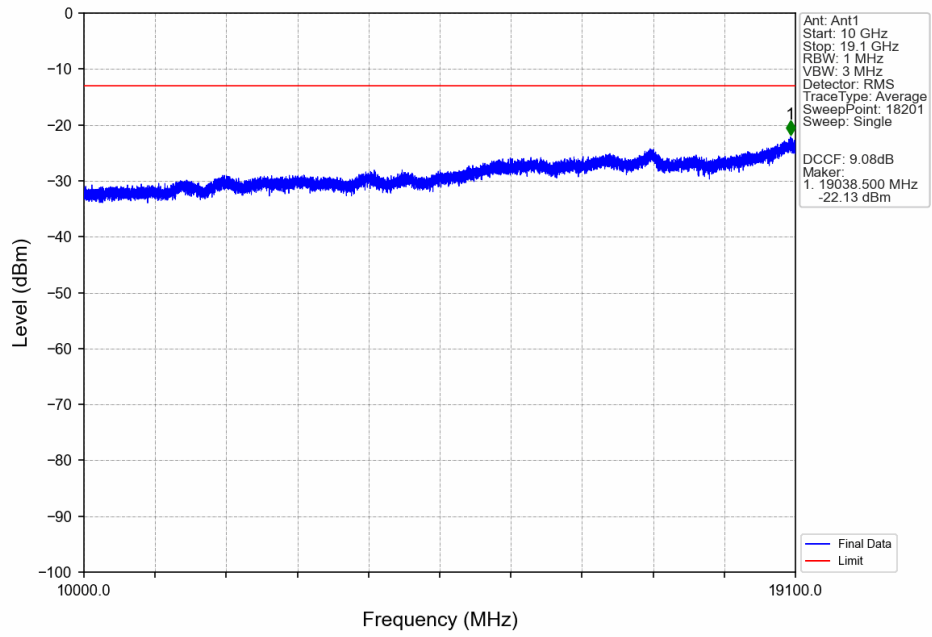
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTN



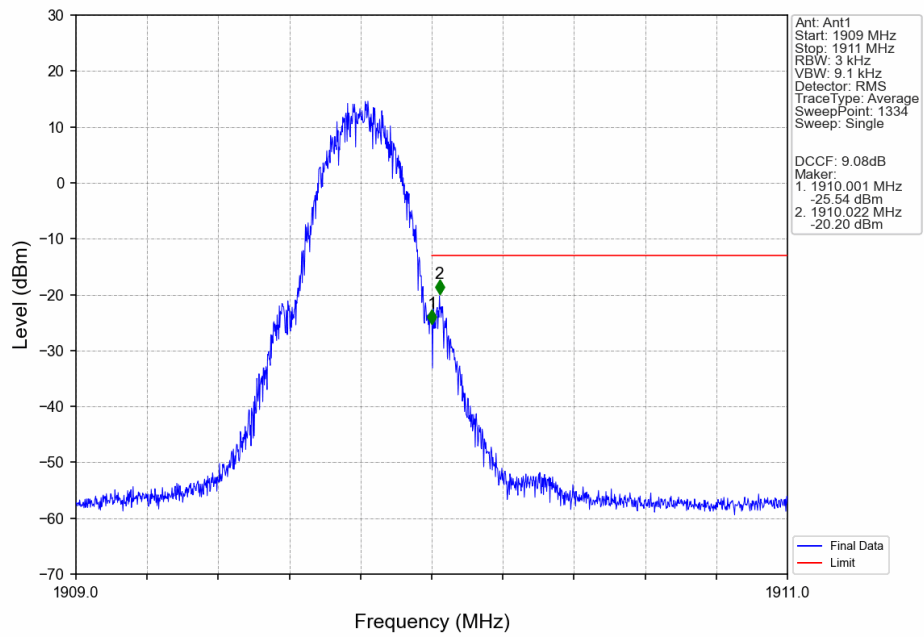
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTN



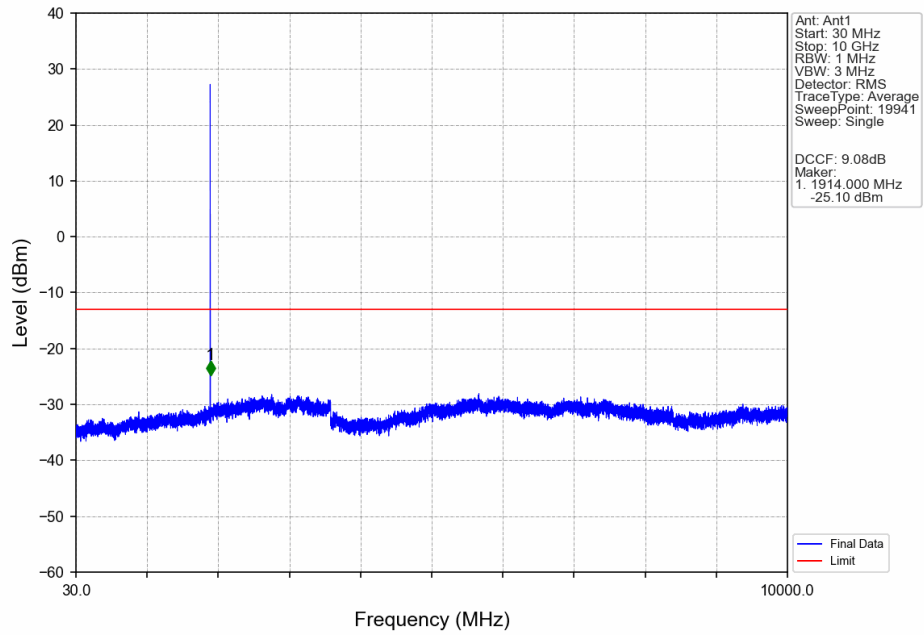
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



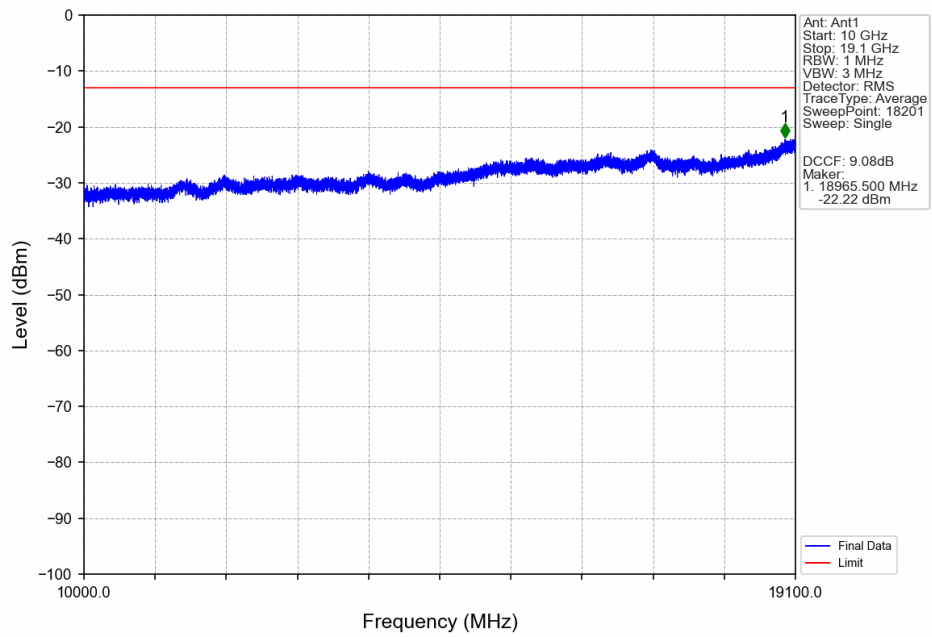
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



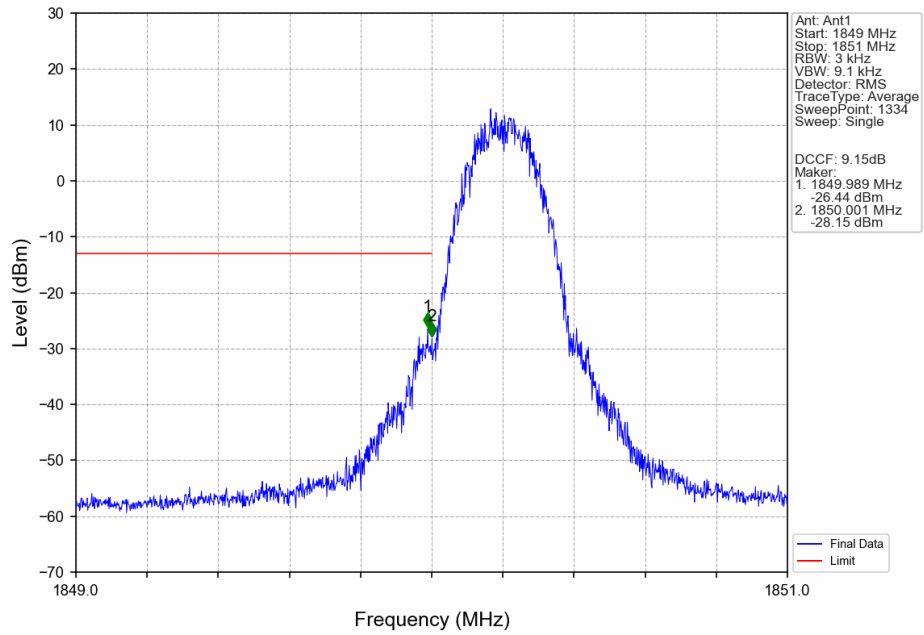
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



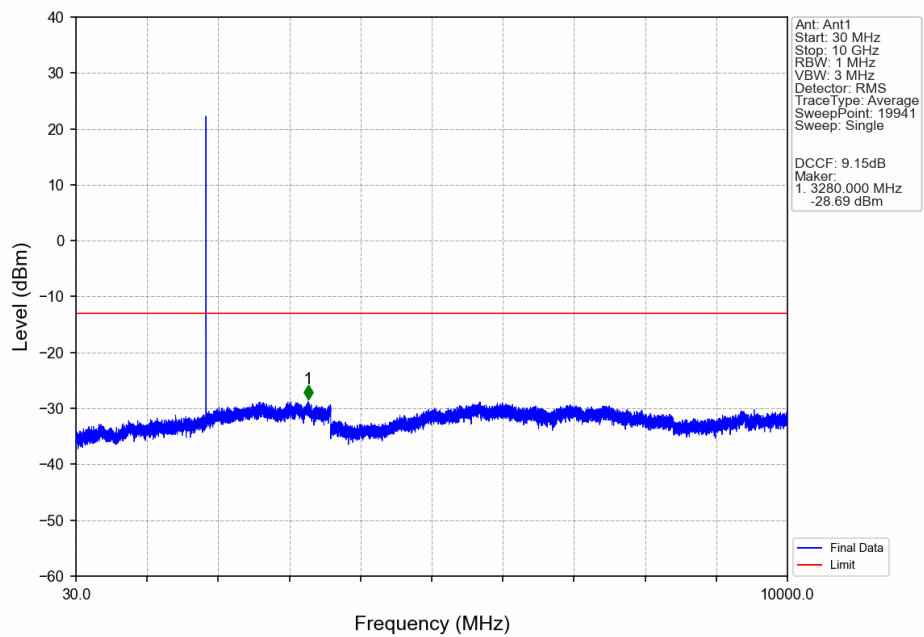
PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



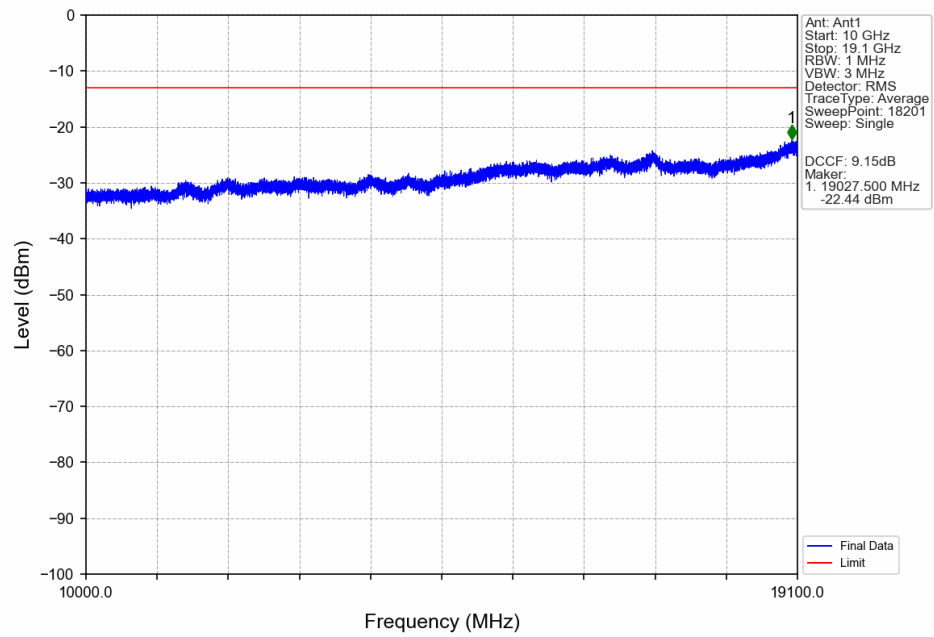
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



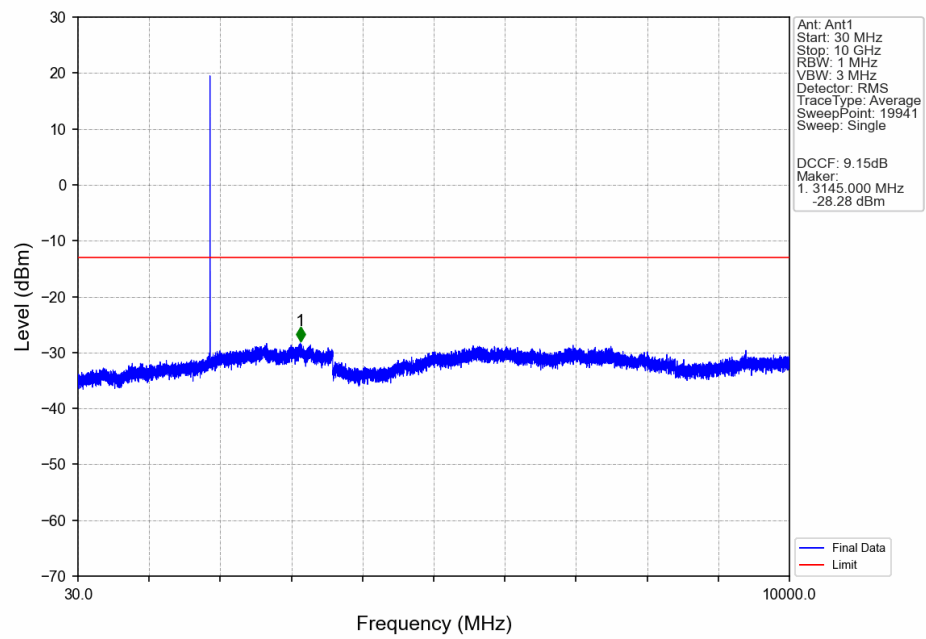
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



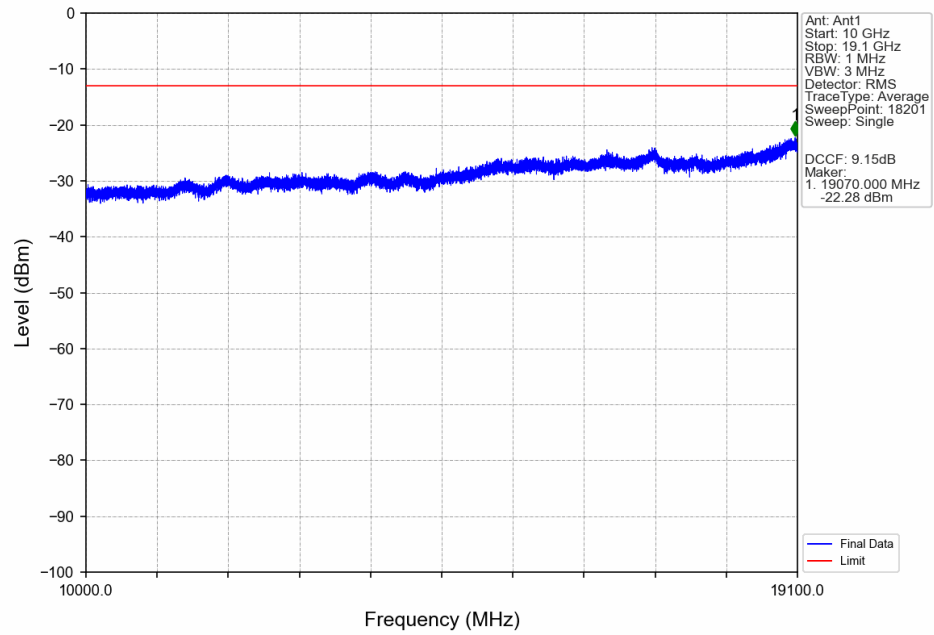
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTNV



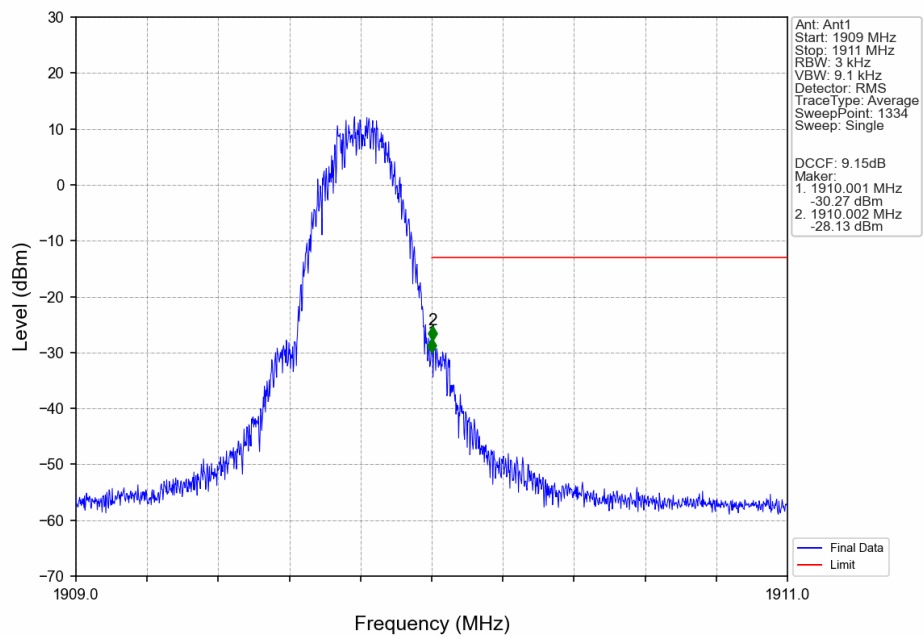
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



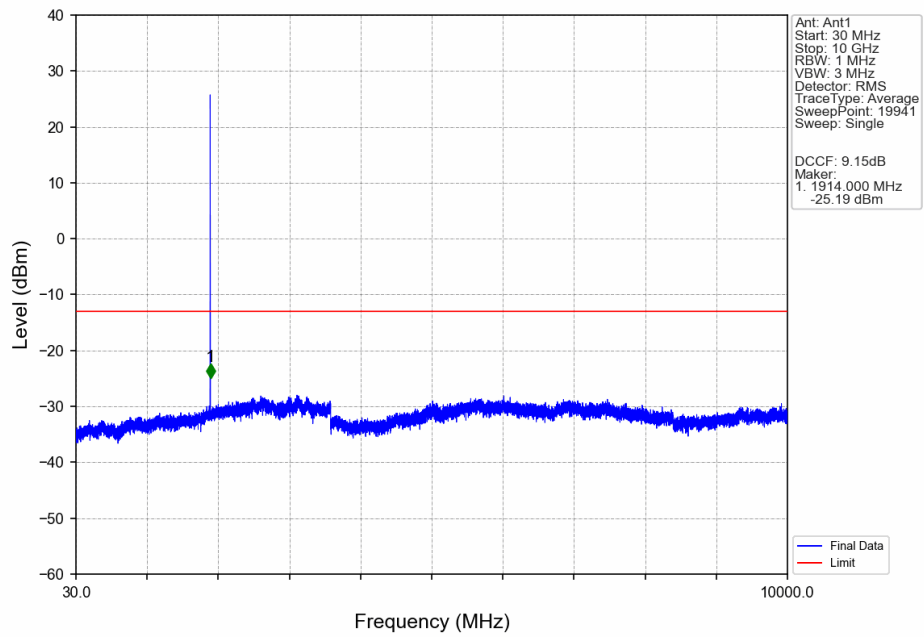
PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTNV



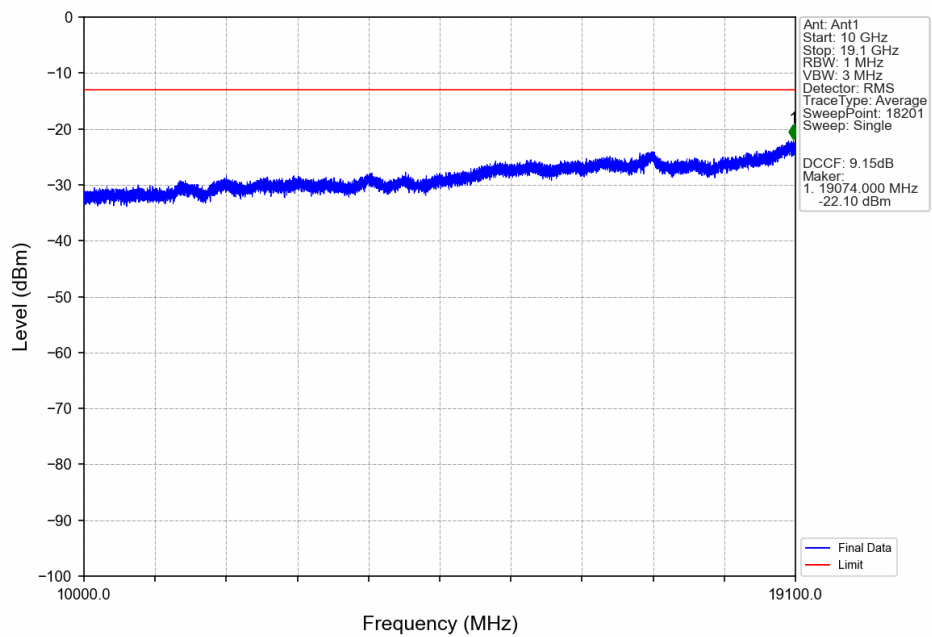
PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



PCS1900 EGPRS HCH 1909.8MHz 1 TX Slot NTNV



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