

Appendix F for KSCR220400050306

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	29.47	2.00	31.47	<=33.01	Pass
		2 TX Slots	1850.2	29.38	2.00	31.38	<=33.01	Pass
		3 TX Slots	1850.2	29.26	2.00	31.26	<=33.01	Pass
		4 TX Slots	1850.2	28.73	2.00	30.73	<=33.01	Pass
		1 TX Slot	1880	29.01	2.00	31.01	<=33.01	Pass
		2 TX Slots	1880	29.00	2.00	31.00	<=33.01	Pass
		3 TX Slots	1880	28.89	2.00	30.89	<=33.01	Pass
		4 TX Slots	1880	28.40	2.00	30.40	<=33.01	Pass
		1 TX Slot	1909.8	29.24	2.00	31.24	<=33.01	Pass
		2 TX Slots	1909.8	29.25	2.00	31.25	<=33.01	Pass
		3 TX Slots	1909.8	29.16	2.00	31.16	<=33.01	Pass
		4 TX Slots	1909.8	28.69	2.00	30.69	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	25.53	2.00	27.53	<=33.01	Pass
		2 TX Slots	1850.2	25.31	2.00	27.31	<=33.01	Pass
		3 TX Slots	1850.2	25.16	2.00	27.16	<=33.01	Pass
		4 TX Slots	1850.2	25.22	2.00	27.22	<=33.01	Pass
		1 TX Slot	1880	26.22	2.00	28.22	<=33.01	Pass
		2 TX Slots	1880	24.97	2.00	26.97	<=33.01	Pass
		3 TX Slots	1880	24.96	2.00	26.96	<=33.01	Pass
		4 TX Slots	1880	24.94	2.00	26.94	<=33.01	Pass
		1 TX Slot	1909.8	25.29	2.00	27.29	<=33.01	Pass
		2 TX Slots	1909.8	25.22	2.00	27.22	<=33.01	Pass
		3 TX Slots	1909.8	25.20	2.00	27.20	<=33.01	Pass
		4 TX Slots	1909.8	25.21	2.00	27.21	<=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	



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GPRS	1850.2	20	6.12	20.462	0.0111	-2.5 to 2.5	Pass
			7.2	24.364	0.0132	-2.5 to 2.5	Pass
			8.28	17.937	0.0097	-2.5 to 2.5	Pass
		-30	7.2	20.661	0.0112	-2.5 to 2.5	Pass
		-20	7.2	15.853	0.0086	-2.5 to 2.5	Pass
		-10	7.2	19.518	0.0105	-2.5 to 2.5	Pass
		0	7.2	20.061	0.0108	-2.5 to 2.5	Pass
		10	7.2	20.378	0.0110	-2.5 to 2.5	Pass
		30	7.2	21.689	0.0117	-2.5 to 2.5	Pass
		40	7.2	24.420	0.0132	-2.5 to 2.5	Pass
		50	7.2	21.576	0.0117	-2.5 to 2.5	Pass
	1880	20	6.12	18.012	0.0096	-2.5 to 2.5	Pass
			7.2	17.291	0.0092	-2.5 to 2.5	Pass
			8.28	19.905	0.0106	-2.5 to 2.5	Pass
		-30	7.2	18.395	0.0098	-2.5 to 2.5	Pass
		-20	7.2	21.050	0.0112	-2.5 to 2.5	Pass
		-10	7.2	18.901	0.0101	-2.5 to 2.5	Pass
		0	7.2	19.642	0.0104	-2.5 to 2.5	Pass
		10	7.2	21.234	0.0113	-2.5 to 2.5	Pass
		30	7.2	17.132	0.0091	-2.5 to 2.5	Pass
		40	7.2	20.383	0.0108	-2.5 to 2.5	Pass
		50	7.2	16.749	0.0089	-2.5 to 2.5	Pass
	1909.8	20	6.12	22.674	0.0119	-2.5 to 2.5	Pass
			7.2	21.643	0.0113	-2.5 to 2.5	Pass
			8.28	21.905	0.0115	-2.5 to 2.5	Pass
		-30	7.2	19.922	0.0104	-2.5 to 2.5	Pass
		-20	7.2	18.744	0.0098	-2.5 to 2.5	Pass
		-10	7.2	17.254	0.0090	-2.5 to 2.5	Pass
		0	7.2	16.479	0.0086	-2.5 to 2.5	Pass
		10	7.2	17.606	0.0092	-2.5 to 2.5	Pass
		30	7.2	22.650	0.0119	-2.5 to 2.5	Pass
		40	7.2	20.595	0.0108	-2.5 to 2.5	Pass
		50	7.2	19.329	0.0101	-2.5 to 2.5	Pass
EGPRS	1850.2	20	6.12	24.941	0.0135	-2.5 to 2.5	Pass
			7.2	25.009	0.0135	-2.5 to 2.5	Pass
			8.28	20.736	0.0112	-2.5 to 2.5	Pass
		-30	7.2	17.692	0.0096	-2.5 to 2.5	Pass
		-20	7.2	24.819	0.0134	-2.5 to 2.5	Pass
		-10	7.2	20.215	0.0109	-2.5 to 2.5	Pass
		0	7.2	20.235	0.0109	-2.5 to 2.5	Pass
		10	7.2	20.844	0.0113	-2.5 to 2.5	Pass
		30	7.2	20.872	0.0113	-2.5 to 2.5	Pass
		40	7.2	20.441	0.0110	-2.5 to 2.5	Pass
		50	7.2	20.035	0.0108	-2.5 to 2.5	Pass
	1880	20	6.12	17.918	0.0095	-2.5 to 2.5	Pass
			7.2	20.434	0.0109	-2.5 to 2.5	Pass
			8.28	20.804	0.0111	-2.5 to 2.5	Pass
		-30	7.2	21.748	0.0116	-2.5 to 2.5	Pass
		-20	7.2	24.614	0.0131	-2.5 to 2.5	Pass
		-10	7.2	19.757	0.0105	-2.5 to 2.5	Pass
		0	7.2	21.150	0.0113	-2.5 to 2.5	Pass



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		10	7.2	24.492	0.0130	-2.5 to 2.5	Pass
		30	7.2	25.514	0.0136	-2.5 to 2.5	Pass
		40	7.2	23.485	0.0125	-2.5 to 2.5	Pass
		50	7.2	25.636	0.0136	-2.5 to 2.5	Pass
	1909.8	20	6.12	27.264	0.0143	-2.5 to 2.5	Pass
			7.2	20.046	0.0105	-2.5 to 2.5	Pass
			8.28	20.535	0.0108	-2.5 to 2.5	Pass
		-30	7.2	21.998	0.0115	-2.5 to 2.5	Pass
		-20	7.2	22.075	0.0116	-2.5 to 2.5	Pass
		-10	7.2	27.694	0.0145	-2.5 to 2.5	Pass
		0	7.2	18.323	0.0096	-2.5 to 2.5	Pass
		10	7.2	17.847	0.0093	-2.5 to 2.5	Pass
		30	7.2	14.475	0.0076	-2.5 to 2.5	Pass
		40	7.2	19.122	0.0100	-2.5 to 2.5	Pass
		50	7.2	16.410	0.0086	-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



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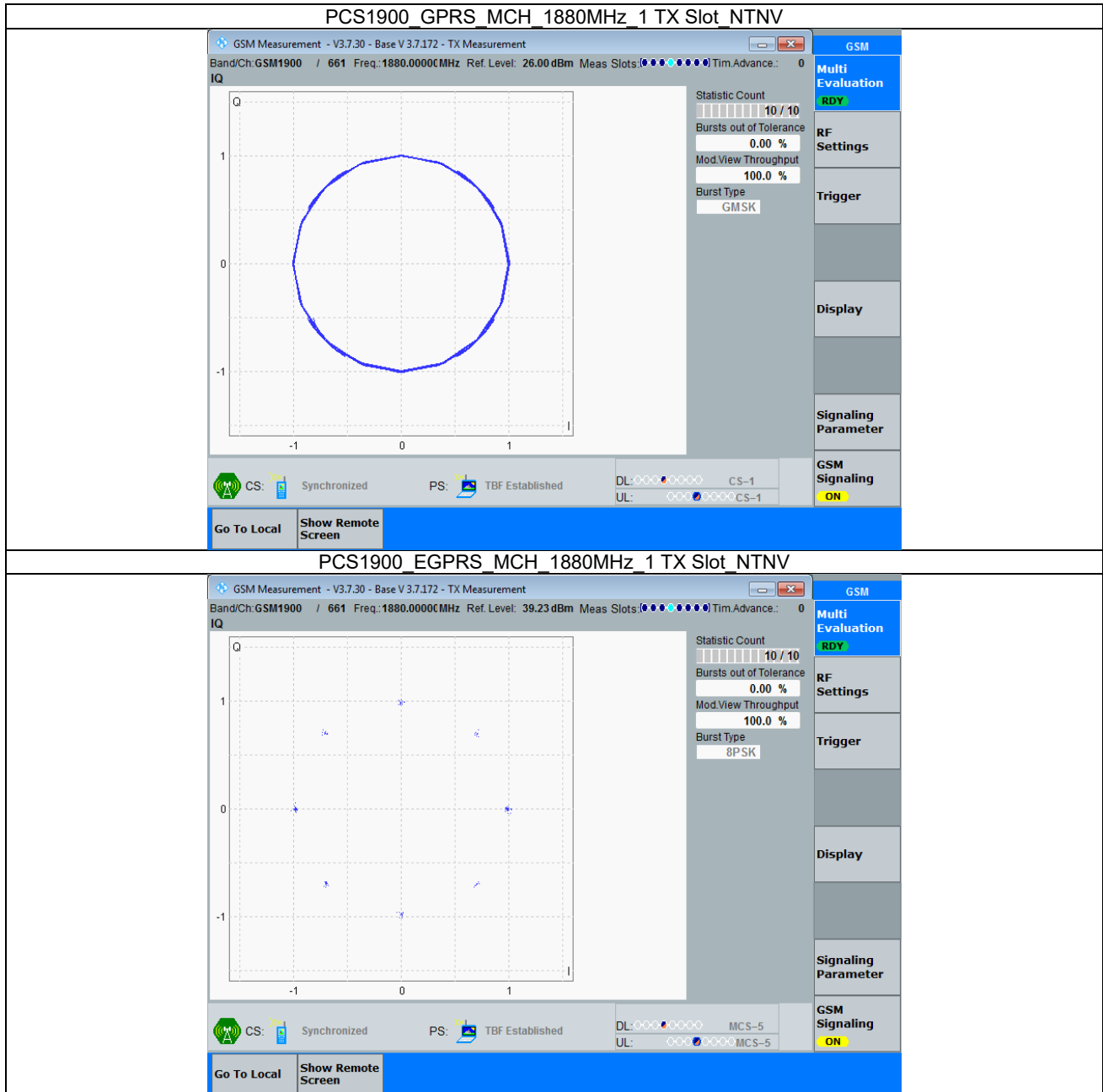
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3.1.2 Test Graph



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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	0.246	Pass
			1880	0.243	Pass
			1909.8	0.246	Pass
	EGPRS	1 TX Slot	1850.2	0.252	Pass
			1880	0.249	Pass
			1909.8	0.249	Pass



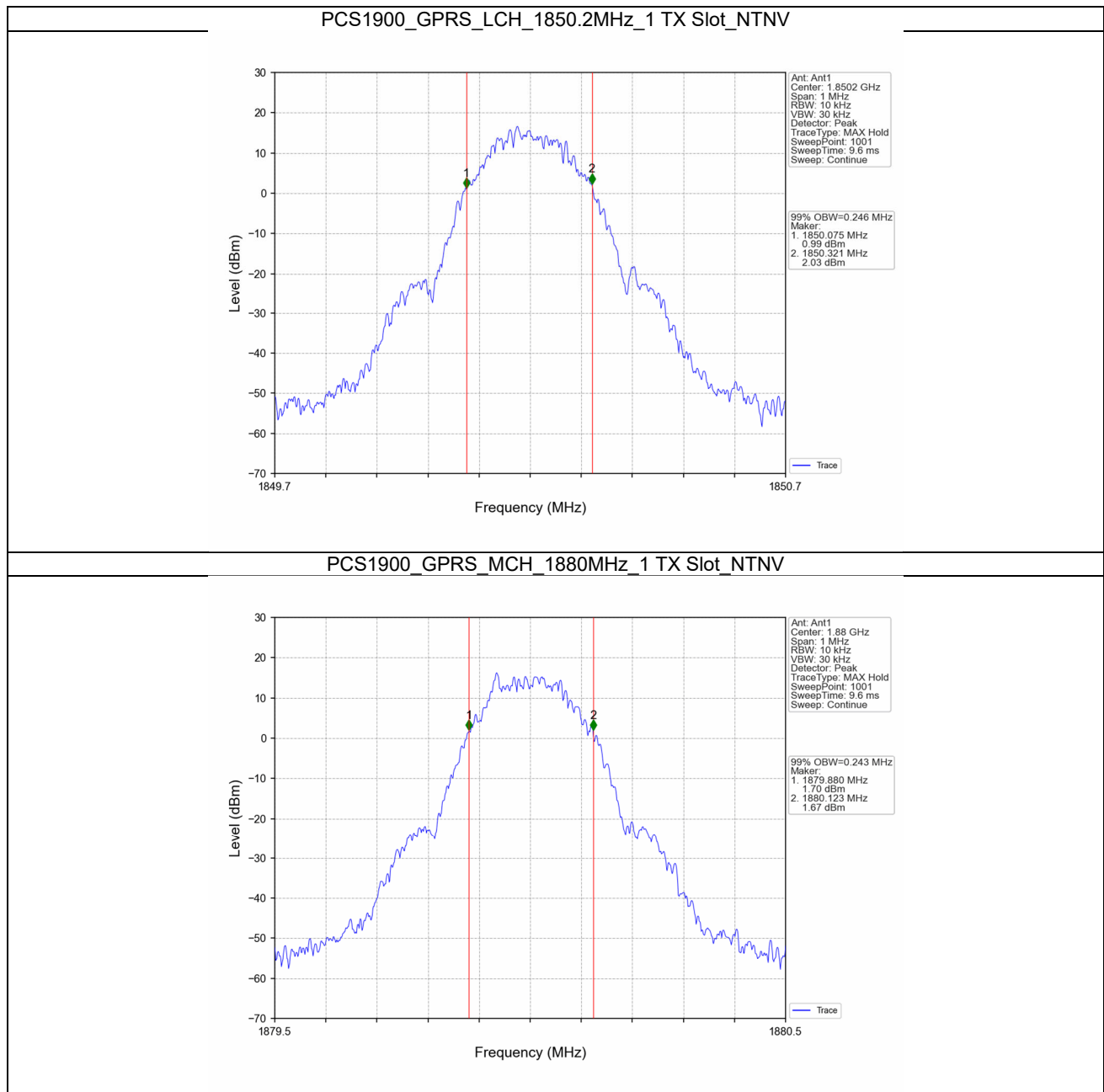
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4.1.2 Test Graph



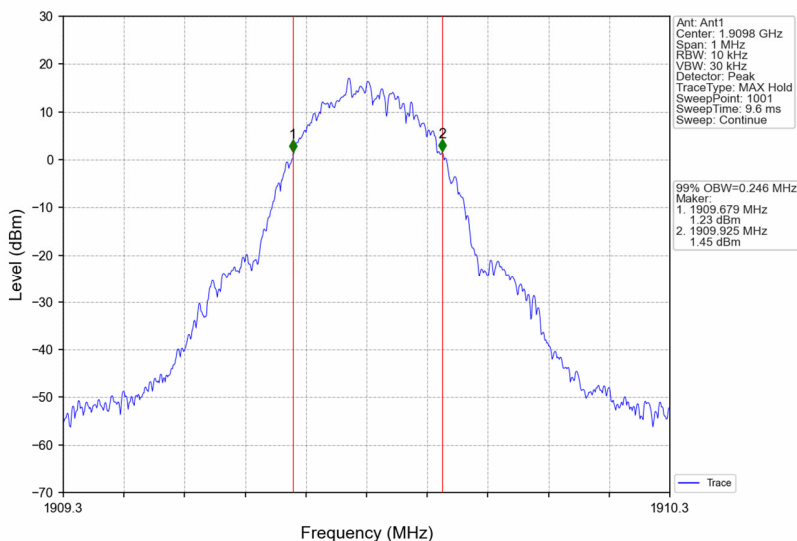
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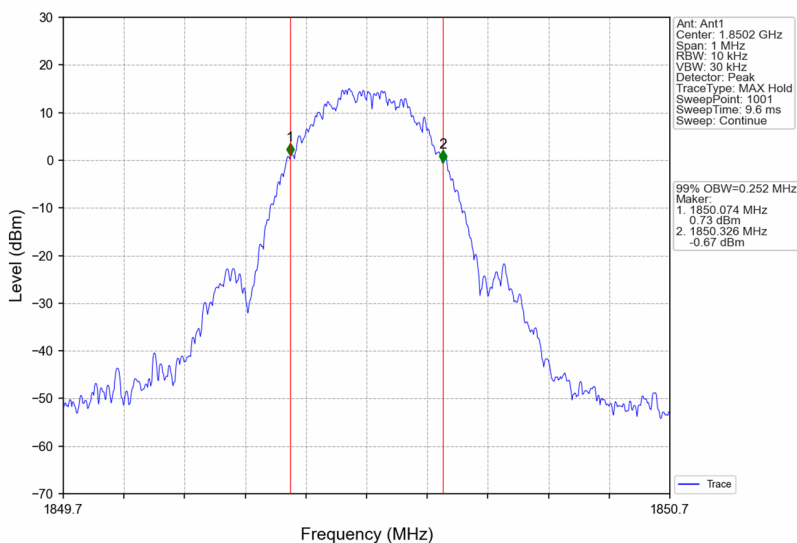
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PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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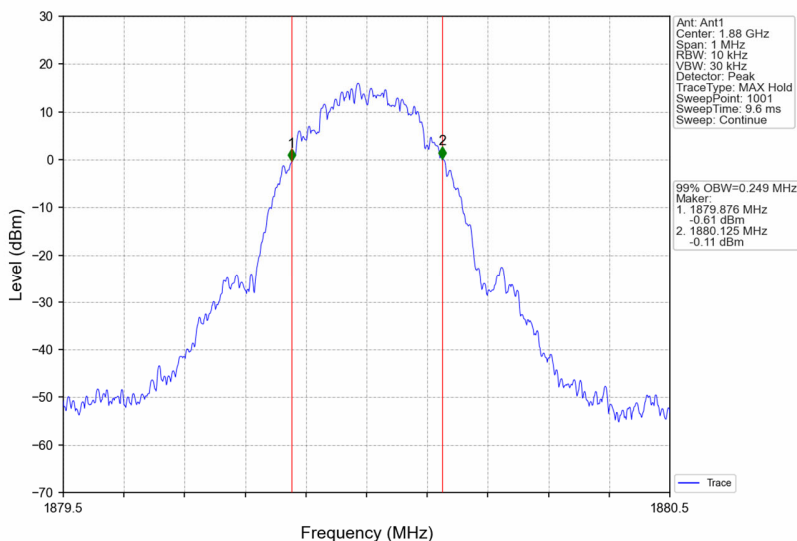
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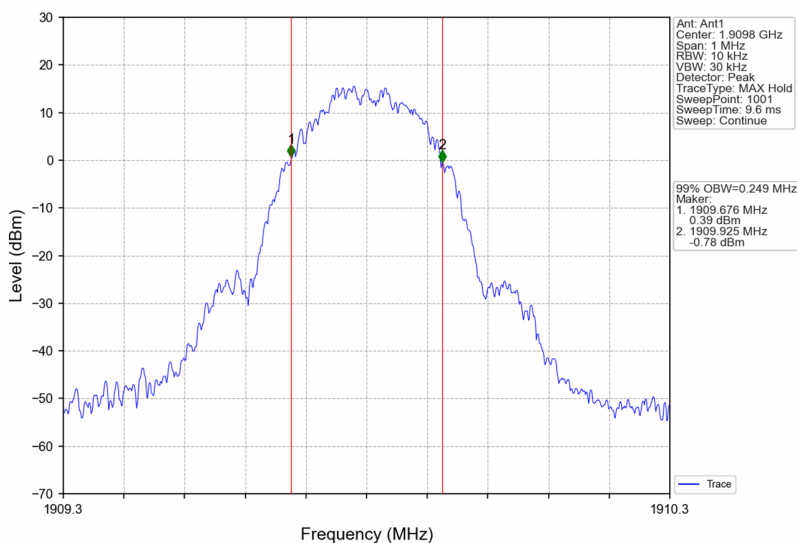
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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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	0.310	Pass
			1880	0.313	Pass
			1909.8	0.315	Pass
	EGPRS	1 TX Slot	1850.2	0.322	Pass
			1880	0.315	Pass
			1909.8	0.318	Pass



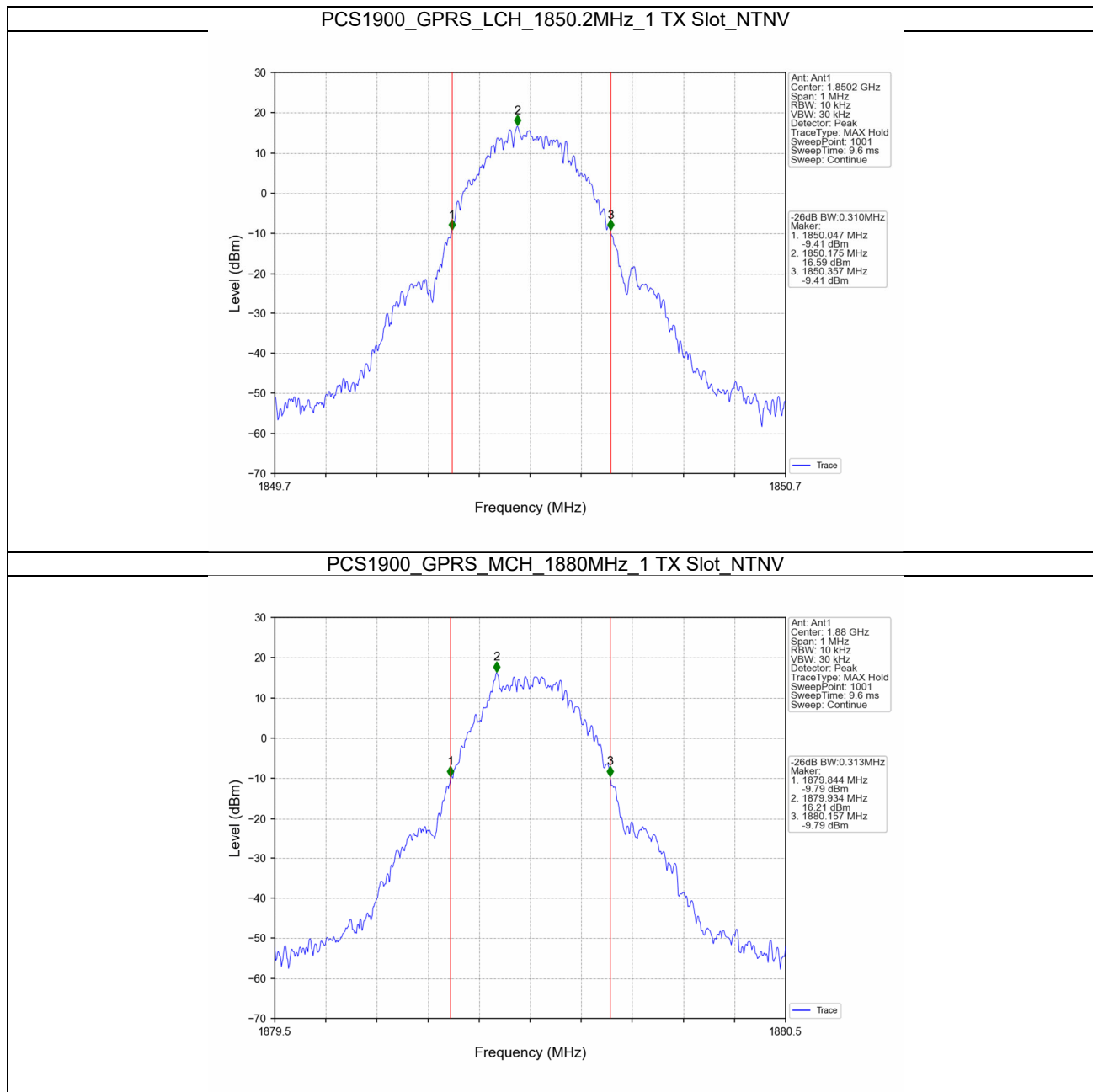
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4.2.2 Test Graph



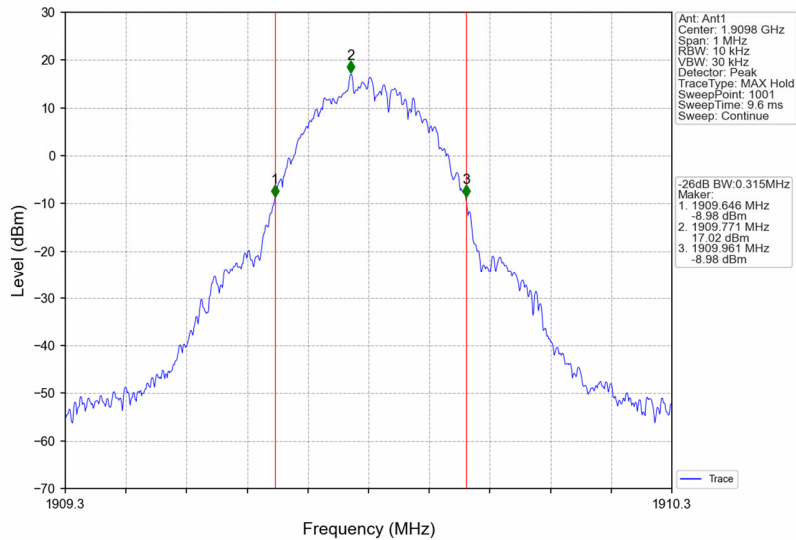
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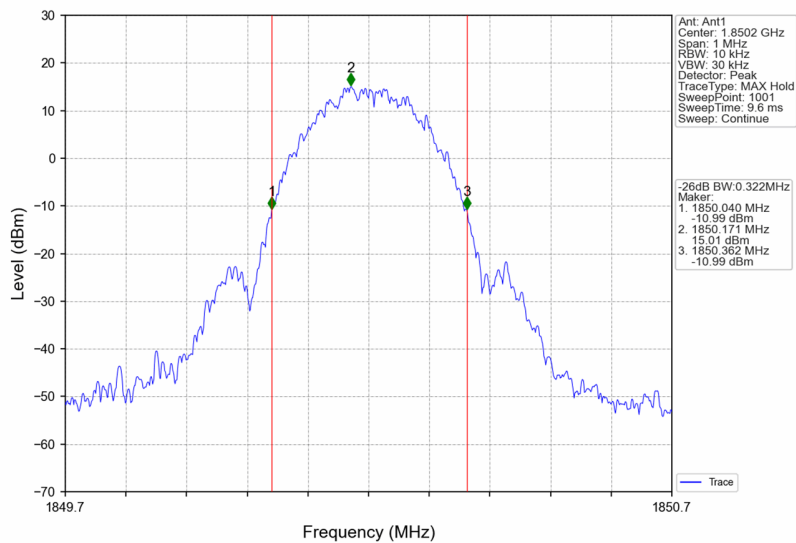
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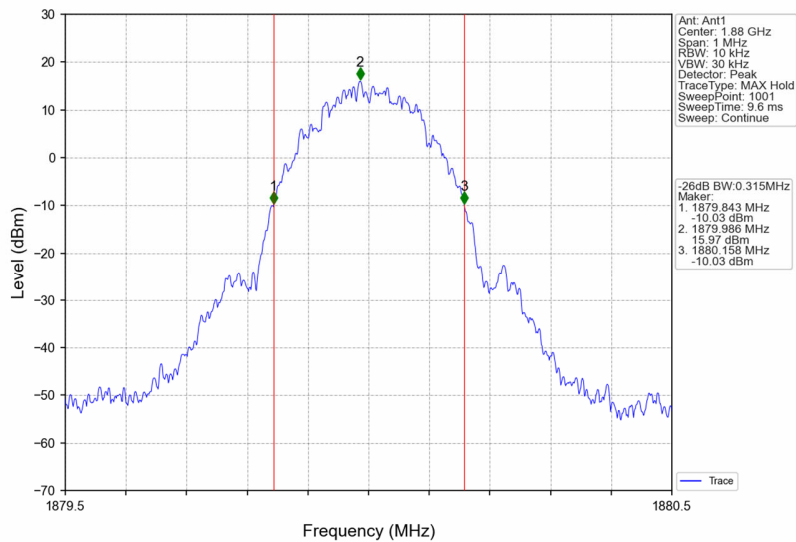
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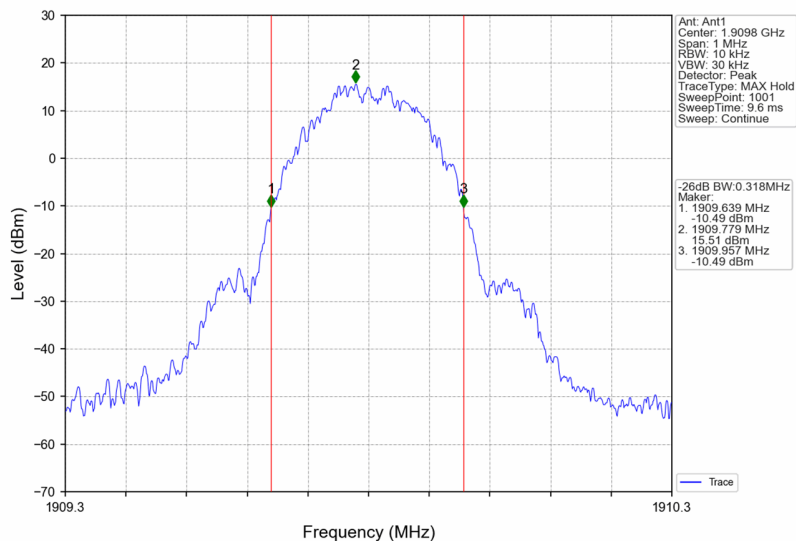
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5. Peak-Average Ratio

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	10.08	<=13	Pass
			1880	11.25	<=13	Pass
			1909.8	4.11	<=13	Pass
	EGPRS	4 TX Slots	1850.2	12.64	<=13	Pass
			1880	7.47	<=13	Pass
			1909.8	7.40	<=13	Pass



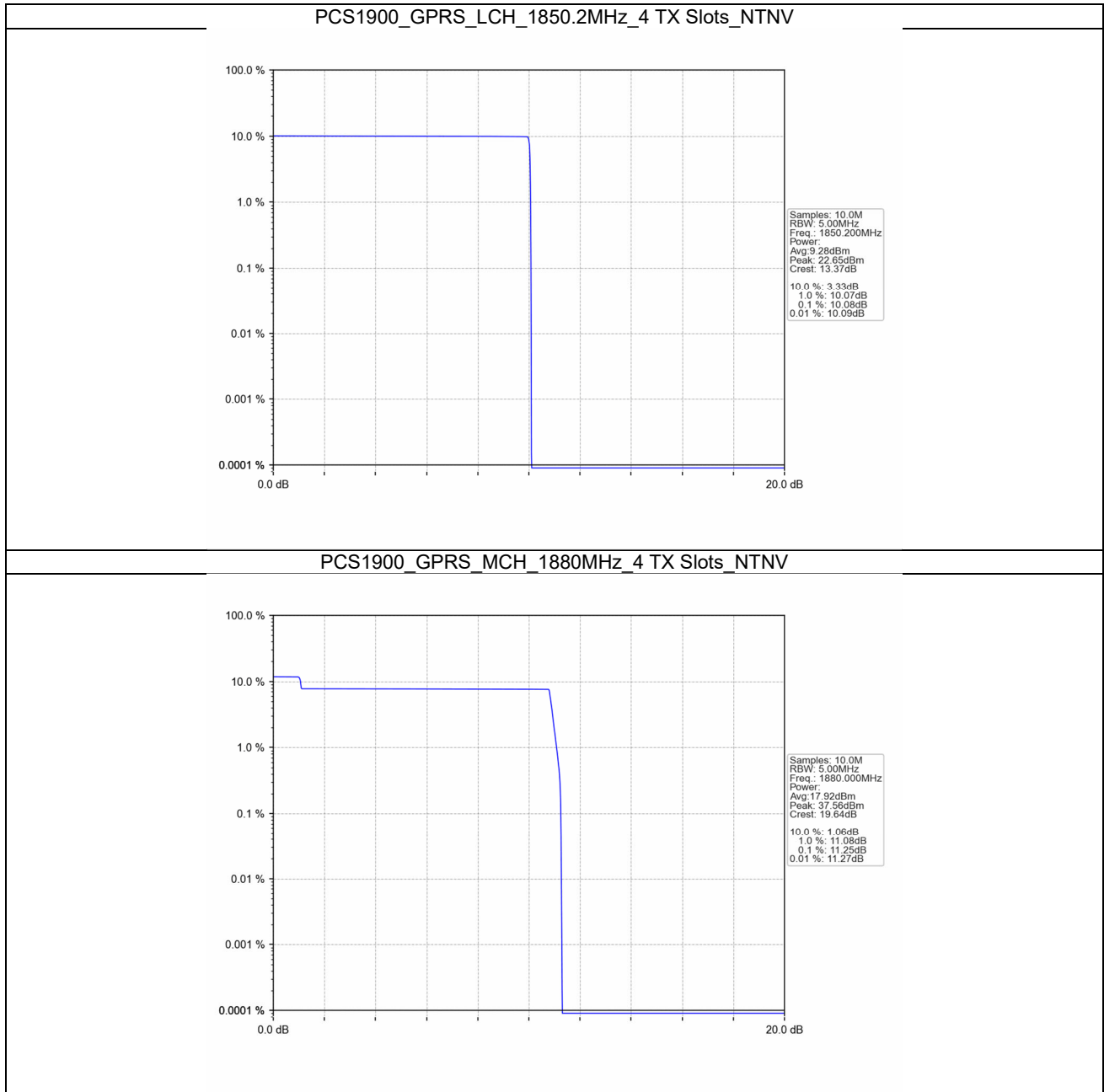
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5.1.2 Test Graph



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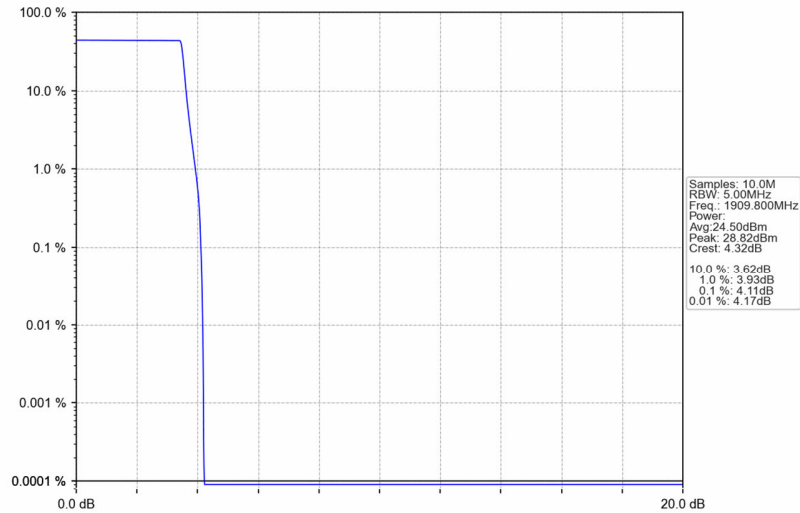
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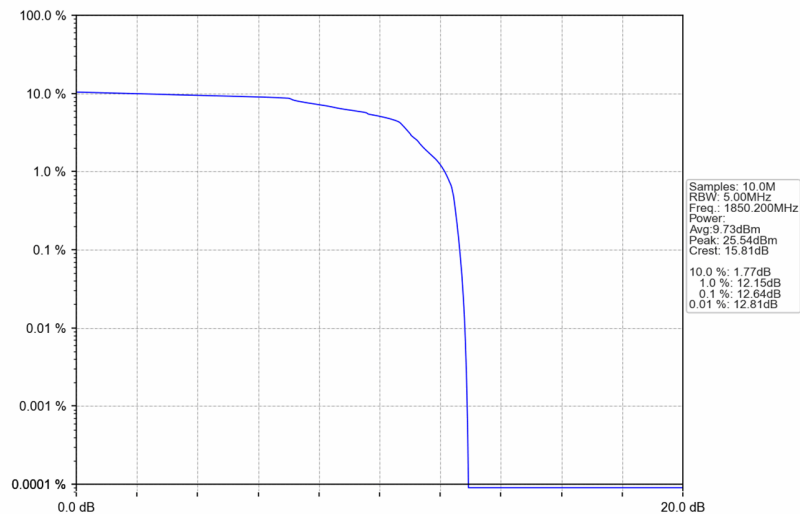
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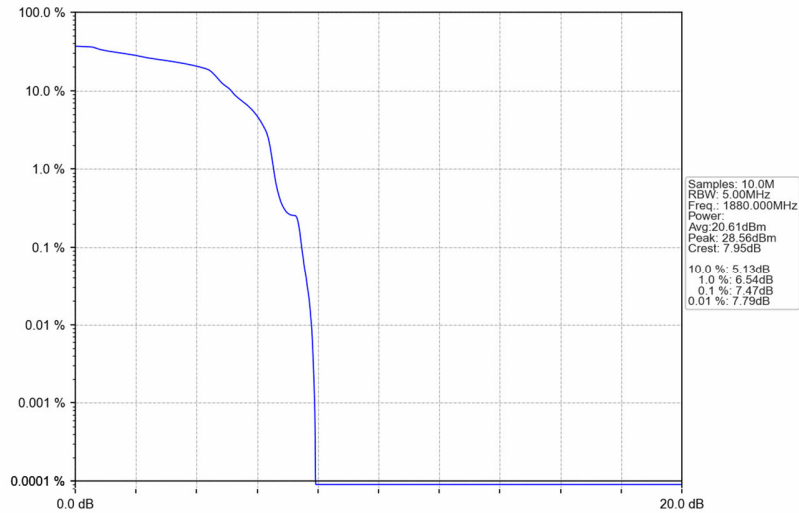
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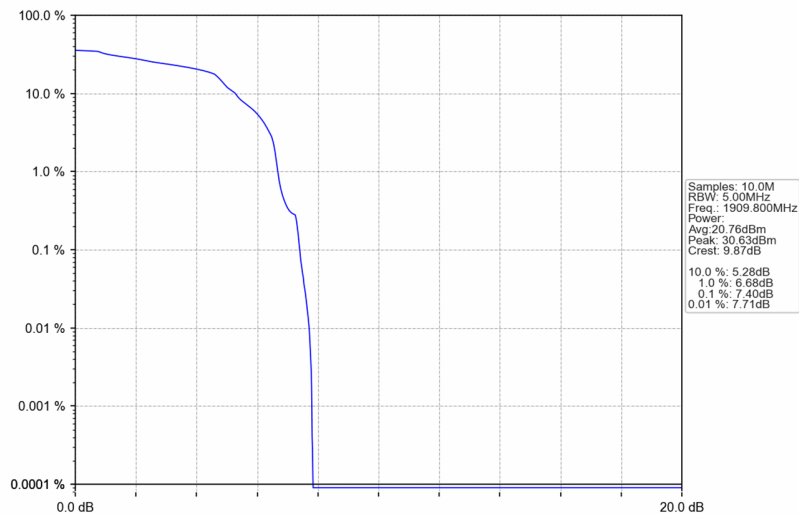
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6. Spurious Emission

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



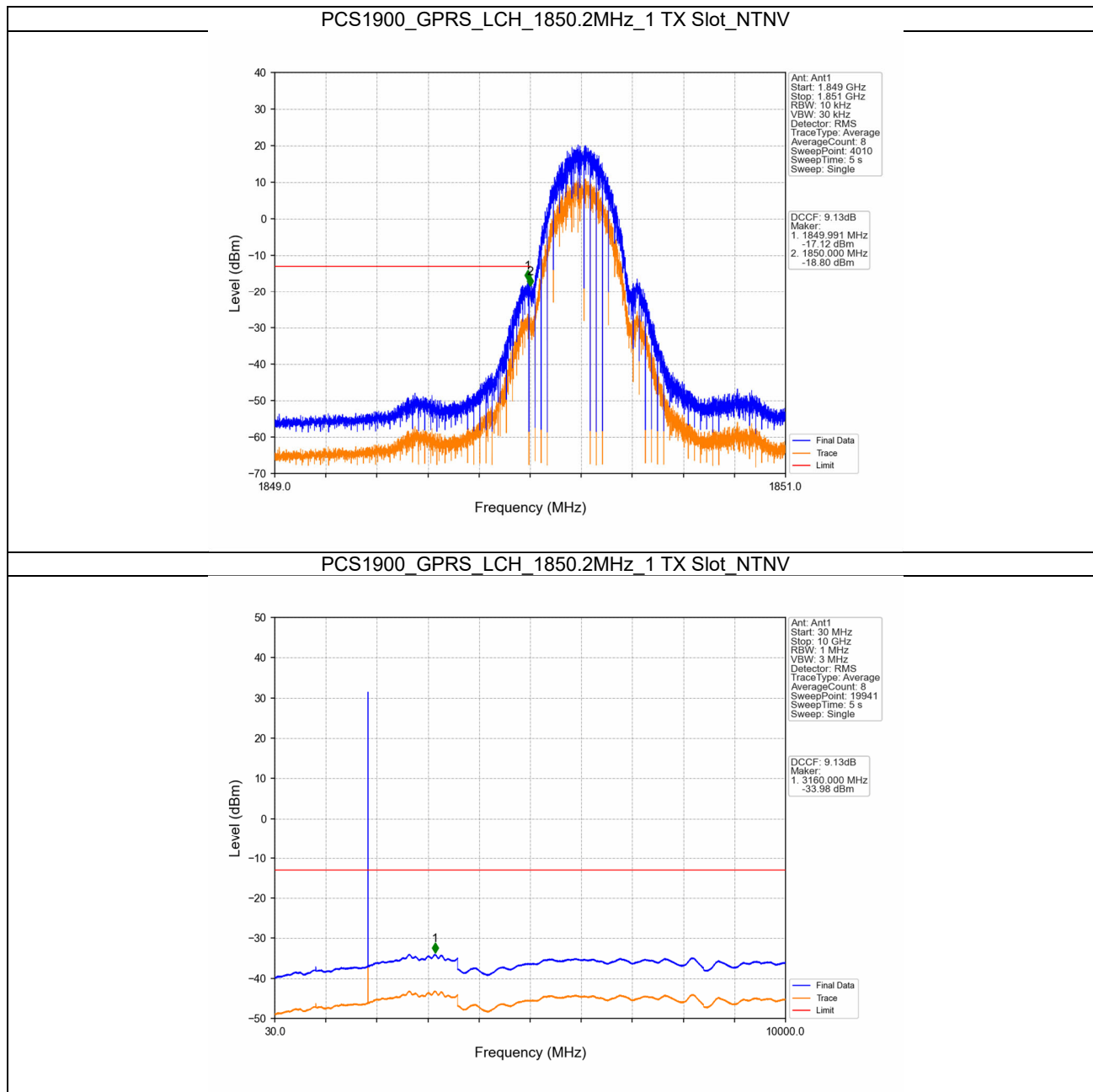
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6.1.2 Test Graph



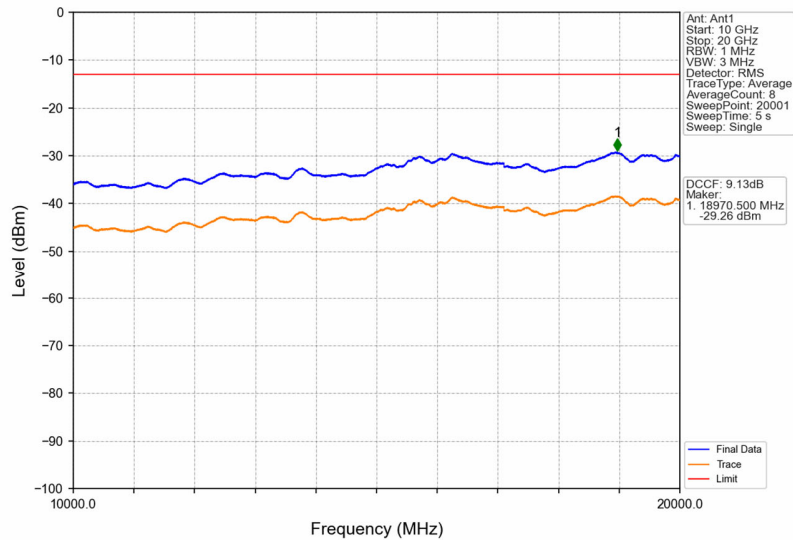
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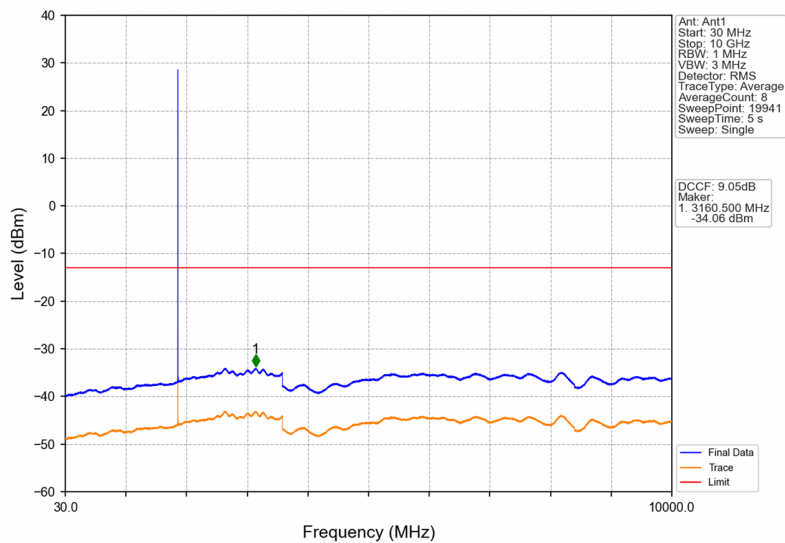
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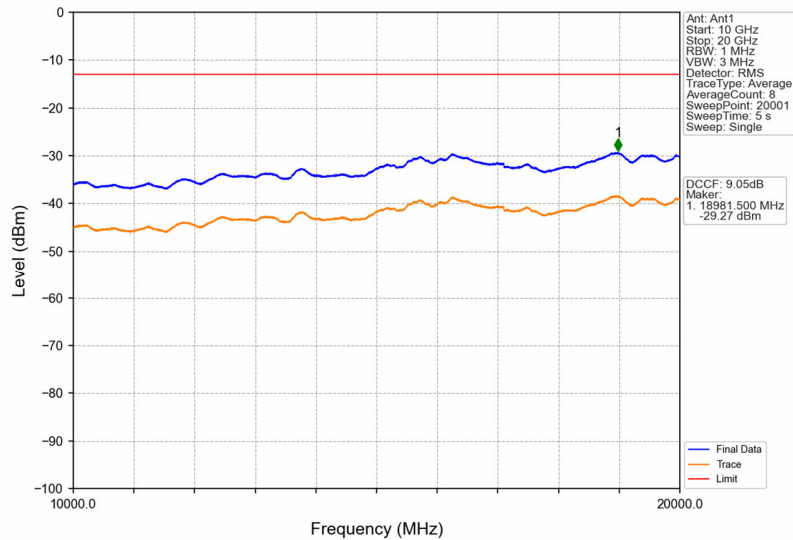
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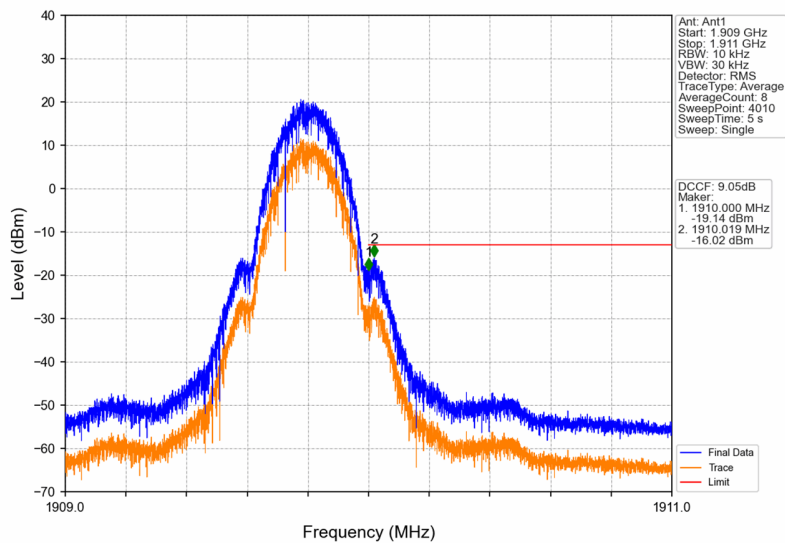
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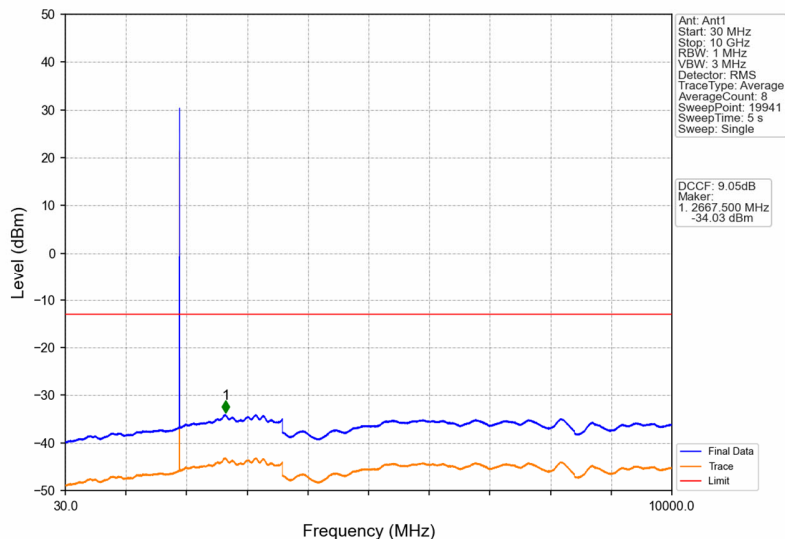
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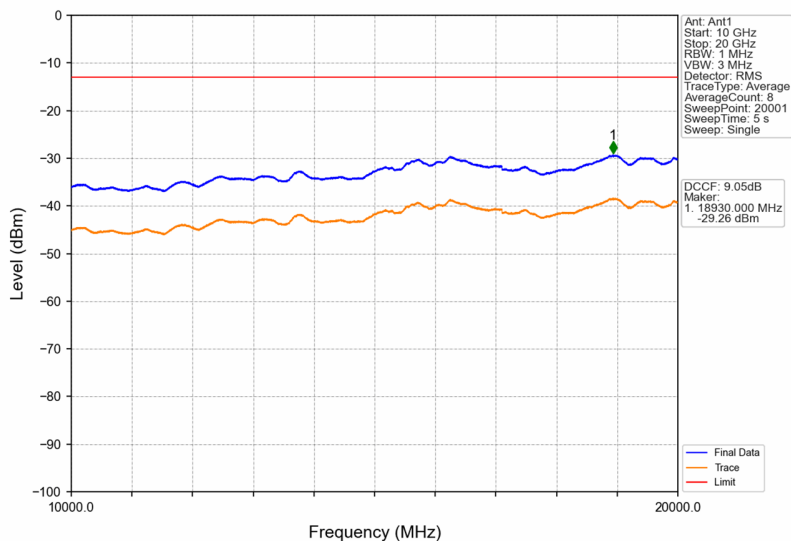
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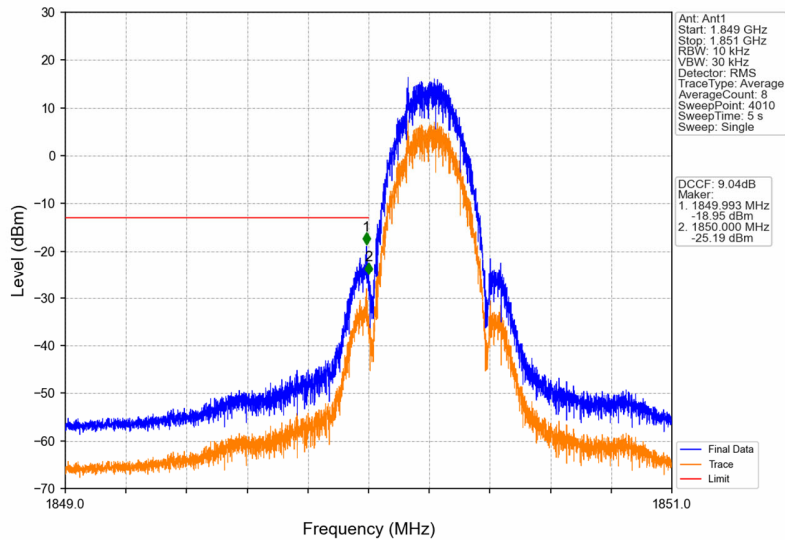
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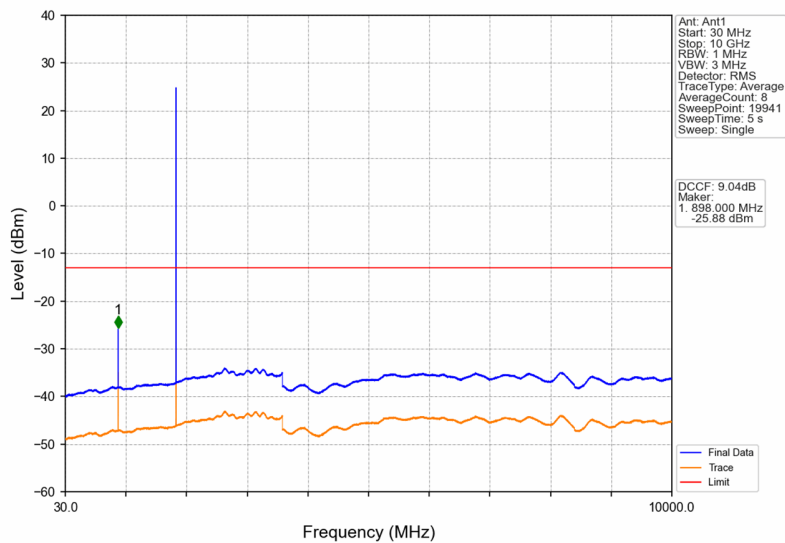
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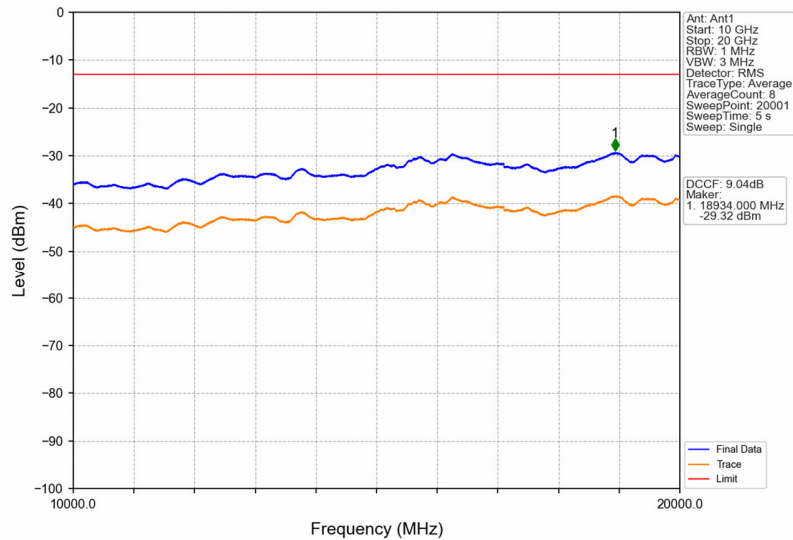
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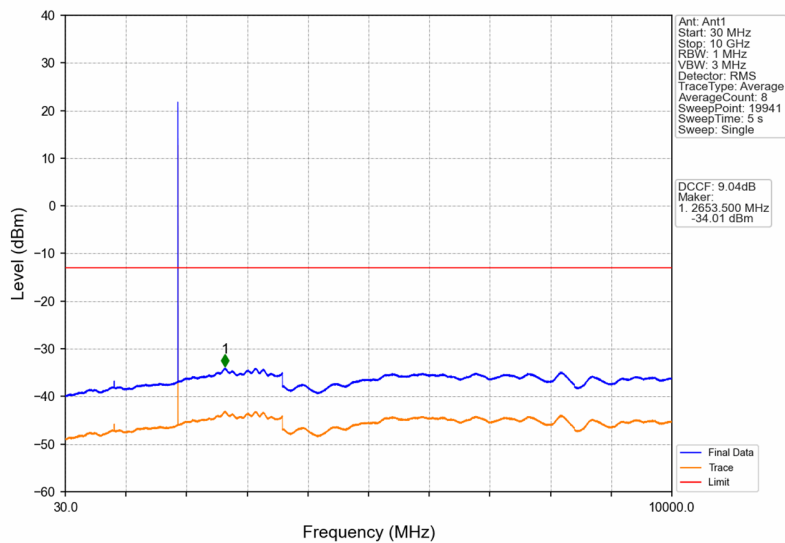
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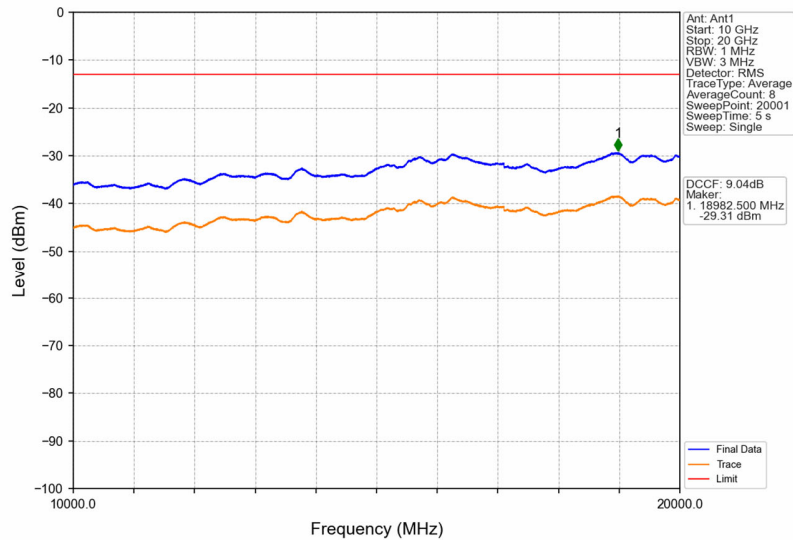
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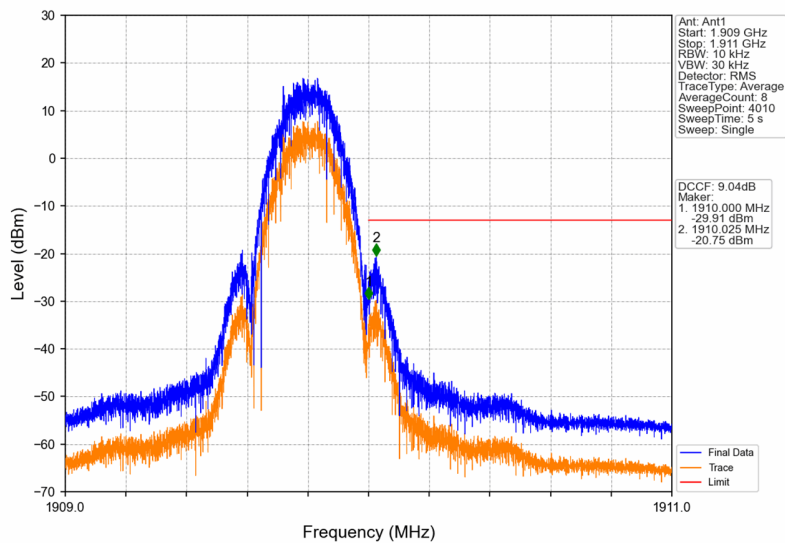
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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EMC Laboratory

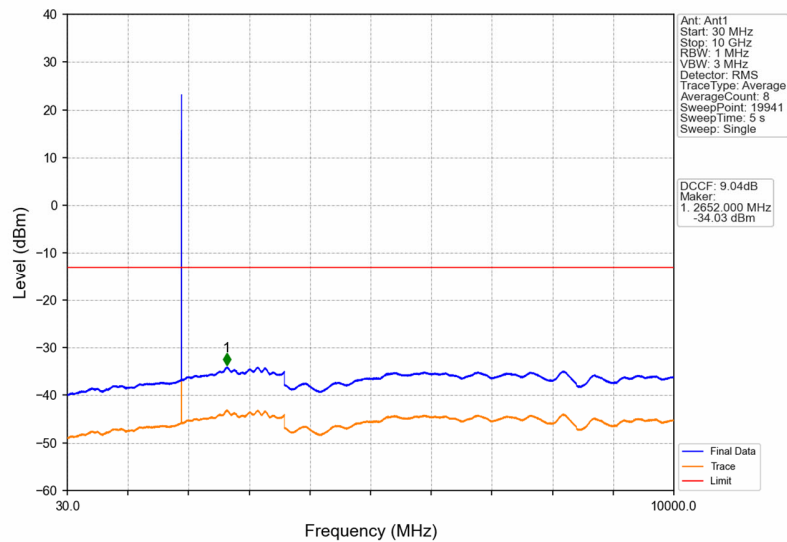
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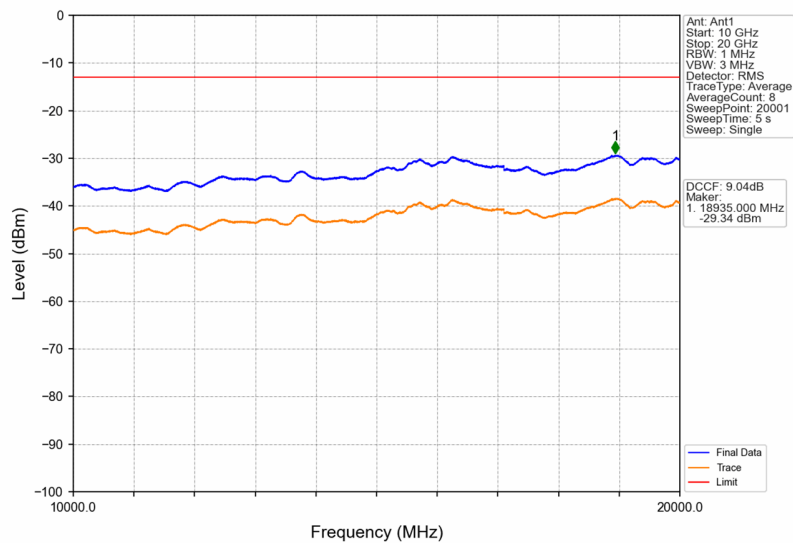
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