

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	GSM	GSM	1850.2	31.04	-1.10	29.94	<=33.01	Pass
			1880	30.87	-1.10	29.77	<=33.01	Pass
			1909.8	30.72	-1.10	29.62	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	31.13	-1.10	30.03	<=33.01	Pass
		2 TX Slots	1850.2	30.82	-1.10	29.72	<=33.01	Pass
		3 TX Slots	1850.2	30.37	-1.10	29.27	<=33.01	Pass
		4 TX Slots	1850.2	29.53	-1.10	28.43	<=33.01	Pass
		1 TX Slot	1880	30.77	-1.10	29.67	<=33.01	Pass
		2 TX Slots	1880	30.38	-1.10	29.28	<=33.01	Pass
		3 TX Slots	1880	29.88	-1.10	28.78	<=33.01	Pass
		4 TX Slots	1880	29.03	-1.10	27.93	<=33.01	Pass
		1 TX Slot	1909.8	30.54	-1.10	29.44	<=33.01	Pass
		2 TX Slots	1909.8	30.09	-1.10	28.99	<=33.01	Pass
		3 TX Slots	1909.8	29.60	-1.10	28.50	<=33.01	Pass
		4 TX Slots	1909.8	28.72	-1.10	27.62	<=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	
GSM	1850.2	20	3.27	-1.905	-0.0010	-2.5 to 2.5	Pass
			3.85	-17.467	-0.0094	-2.5 to 2.5	Pass
			4.43	-21.083	-0.0114	-2.5 to 2.5	Pass
		-30	3.85	-20.502	-0.0111	-2.5 to 2.5	Pass
		-20	3.85	-4.003	-0.0022	-2.5 to 2.5	Pass
		-10	3.85	1.905	0.0010	-2.5 to 2.5	Pass
		0	3.85	-0.291	-0.0002	-2.5 to 2.5	Pass
		10	3.85	-7.555	-0.0041	-2.5 to 2.5	Pass
		30	3.85	-17.079	-0.0092	-2.5 to 2.5	Pass
		40	3.85	-5.682	-0.0031	-2.5 to 2.5	Pass
		50	3.85	-6.522	-0.0035	-2.5 to 2.5	Pass
	1880	20	3.27	6.360	0.0034	-2.5 to 2.5	Pass
			3.85	20.566	0.0109	-2.5 to 2.5	Pass
			4.43	11.591	0.0062	-2.5 to 2.5	Pass
		-30	3.85	12.688	0.0067	-2.5 to 2.5	Pass
		-20	3.85	9.524	0.0051	-2.5 to 2.5	Pass
		-10	3.85	7.297	0.0039	-2.5 to 2.5	Pass
		0	3.85	6.005	0.0032	-2.5 to 2.5	Pass
		10	3.85	19.436	0.0103	-2.5 to 2.5	Pass
		30	3.85	8.749	0.0047	-2.5 to 2.5	Pass

TCT	1909.8	40	3.85	15.174	0.0081	-2.5 to 2.5	Pass
		50	3.85	10.235	0.0054	-2.5 to 2.5	Pass
		20	3.27	4.714	0.0025	-2.5 to 2.5	Pass
			3.85	1.130	0.0006	-2.5 to 2.5	Pass
			4.43	-11.558	-0.0061	-2.5 to 2.5	Pass
		-30	3.85	-2.260	-0.0012	-2.5 to 2.5	Pass
		-20	3.85	-2.486	-0.0013	-2.5 to 2.5	Pass
		-10	3.85	-11.946	-0.0063	-2.5 to 2.5	Pass
		0	3.85	-4.488	-0.0023	-2.5 to 2.5	Pass
		10	3.85	-16.272	-0.0085	-2.5 to 2.5	Pass
		30	3.85	0.452	0.0002	-2.5 to 2.5	Pass
		40	3.85	1.711	0.0009	-2.5 to 2.5	Pass
		50	3.85	1.937	0.0010	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.27	13.786	0.0075	-2.5 to 2.5	Pass
			3.85	-5.715	-0.0031	-2.5 to 2.5	Pass
			4.43	-1.647	-0.0009	-2.5 to 2.5	Pass
		-30	3.85	11.332	0.0061	-2.5 to 2.5	Pass
		-20	3.85	11.268	0.0061	-2.5 to 2.5	Pass
		-10	3.85	18.984	0.0103	-2.5 to 2.5	Pass
		0	3.85	8.588	0.0046	-2.5 to 2.5	Pass
		10	3.85	-0.969	-0.0005	-2.5 to 2.5	Pass
		30	3.85	10.202	0.0055	-2.5 to 2.5	Pass
		40	3.85	5.811	0.0031	-2.5 to 2.5	Pass
		50	3.85	-4.552	-0.0025	-2.5 to 2.5	Pass
	1880	20	3.27	-6.651	-0.0035	-2.5 to 2.5	Pass
			3.85	9.557	0.0051	-2.5 to 2.5	Pass
			4.43	-2.712	-0.0014	-2.5 to 2.5	Pass
		-30	3.85	-10.396	-0.0055	-2.5 to 2.5	Pass
		-20	3.85	-17.434	-0.0093	-2.5 to 2.5	Pass
		-10	3.85	-4.714	-0.0025	-2.5 to 2.5	Pass
		0	3.85	-2.938	-0.0016	-2.5 to 2.5	Pass
		10	3.85	4.326	0.0023	-2.5 to 2.5	Pass
		30	3.85	5.295	0.0028	-2.5 to 2.5	Pass
		40	3.85	-10.719	-0.0057	-2.5 to 2.5	Pass
		50	3.85	-0.613	-0.0003	-2.5 to 2.5	Pass
	1909.8	20	3.27	9.137	0.0048	-2.5 to 2.5	Pass
			3.85	-15.691	-0.0082	-2.5 to 2.5	Pass
			4.43	-3.810	-0.0020	-2.5 to 2.5	Pass
		-30	3.85	-6.812	-0.0036	-2.5 to 2.5	Pass
		-20	3.85	-1.582	-0.0008	-2.5 to 2.5	Pass
		-10	3.85	8.007	0.0042	-2.5 to 2.5	Pass
		0	3.85	3.777	0.0020	-2.5 to 2.5	Pass
		10	3.85	4.068	0.0021	-2.5 to 2.5	Pass
		30	3.85	12.462	0.0065	-2.5 to 2.5	Pass
		40	3.85	1.162	0.0006	-2.5 to 2.5	Pass
		50	3.85	0.484	0.0003	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

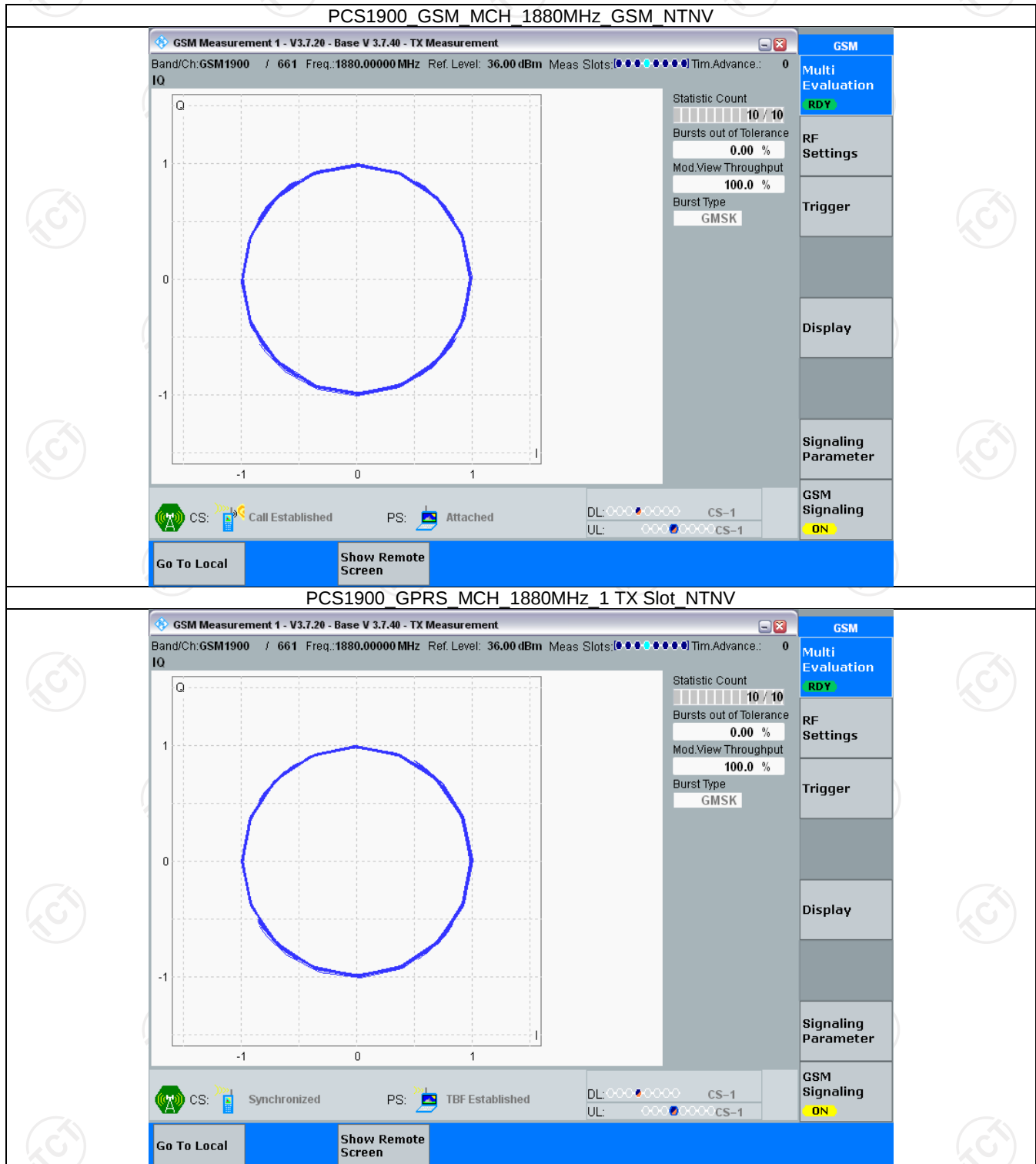
3.1.1 PCS1900

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Modulation Characteristics		Verdict
	Network	Subset		Result	Limit	

NTNV	GSM	GSM	1880	Refer To Test Graph	Pass
	GPRS	1 TX Slot	1880	Refer To Test Graph	Pass

3.2 Test Graph

3.2.1 PCS1900



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 PCS1900_OBW

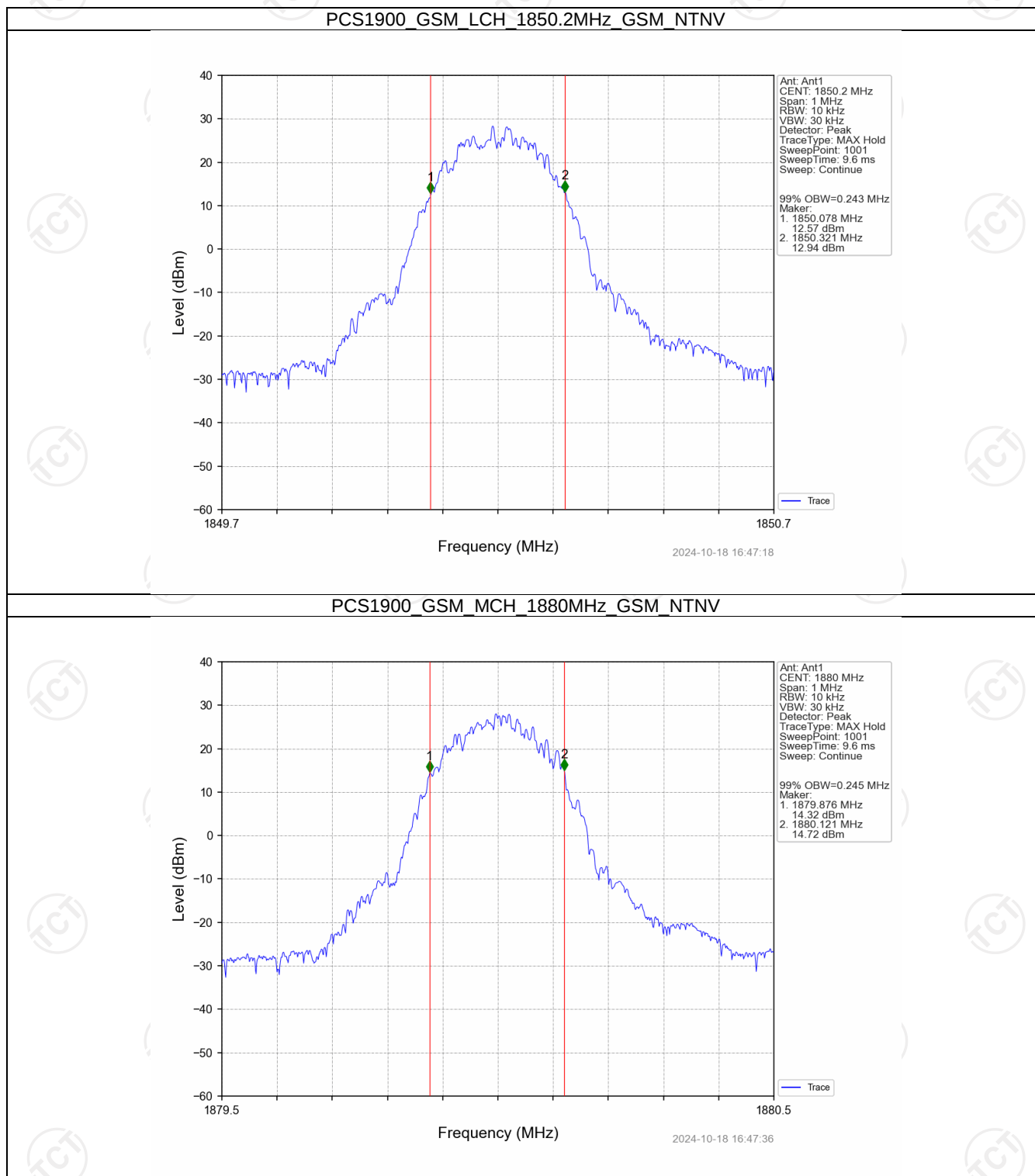
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ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.243	/	Pass
			1880	0.245	/	Pass
			1909.8	0.243	/	Pass
	GPRS	1 TX Slot	1850.2	0.247	/	Pass
			1880	0.242	/	Pass
			1909.8	0.248	/	Pass

4.1.2 PCS1900_XDB

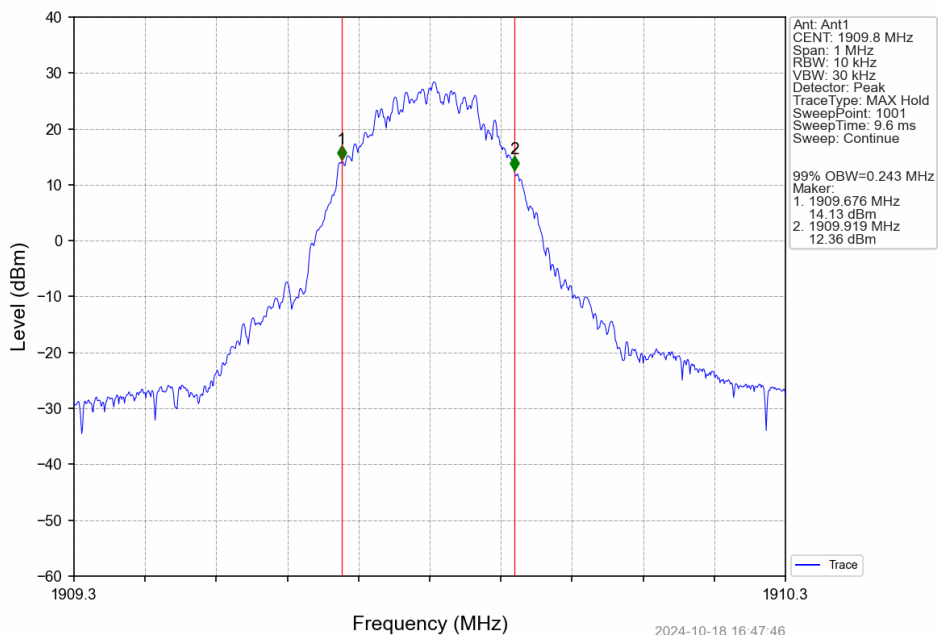
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	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.314	/	Pass
			1880	0.316	/	Pass
			1909.8	0.309	/	Pass
	GPRS	1 TX Slot	1850.2	0.315	/	Pass
			1880	0.315	/	Pass
			1909.8	0.321	/	Pass

4.2 Test Graph

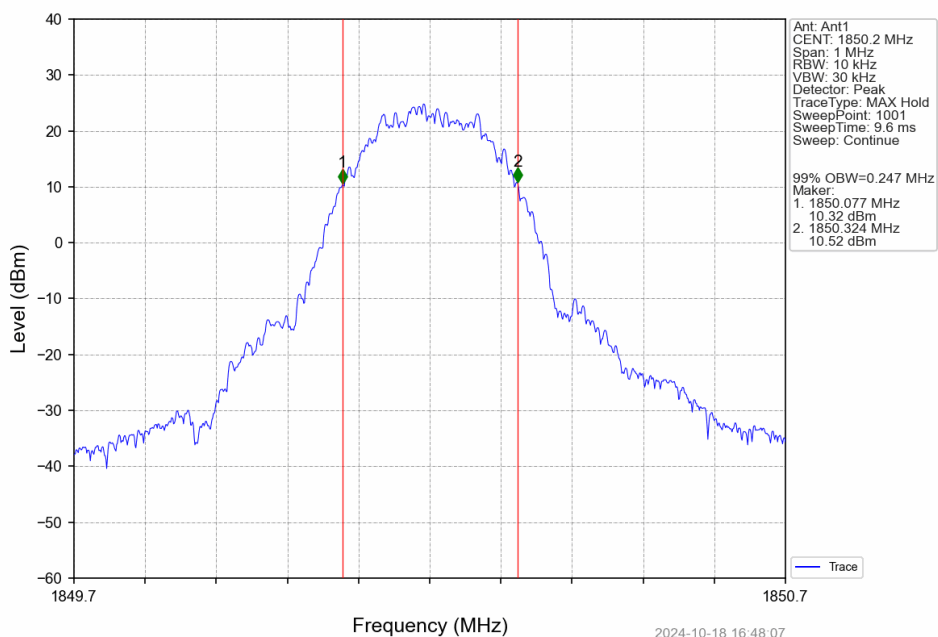
4.2.1 PCS1900_OBW



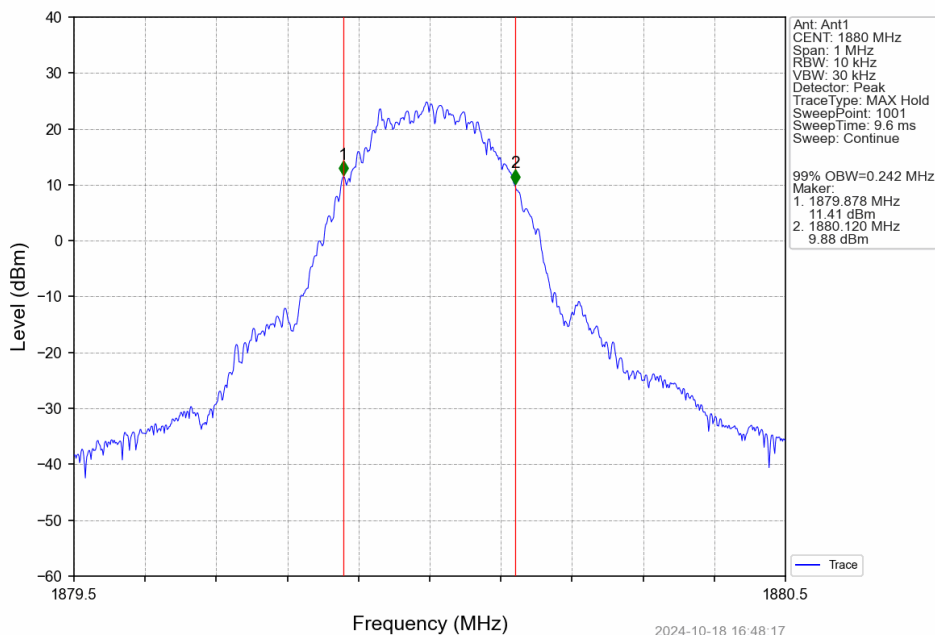
PCS1900 GSM HCH 1909.8MHz GSM NTNV



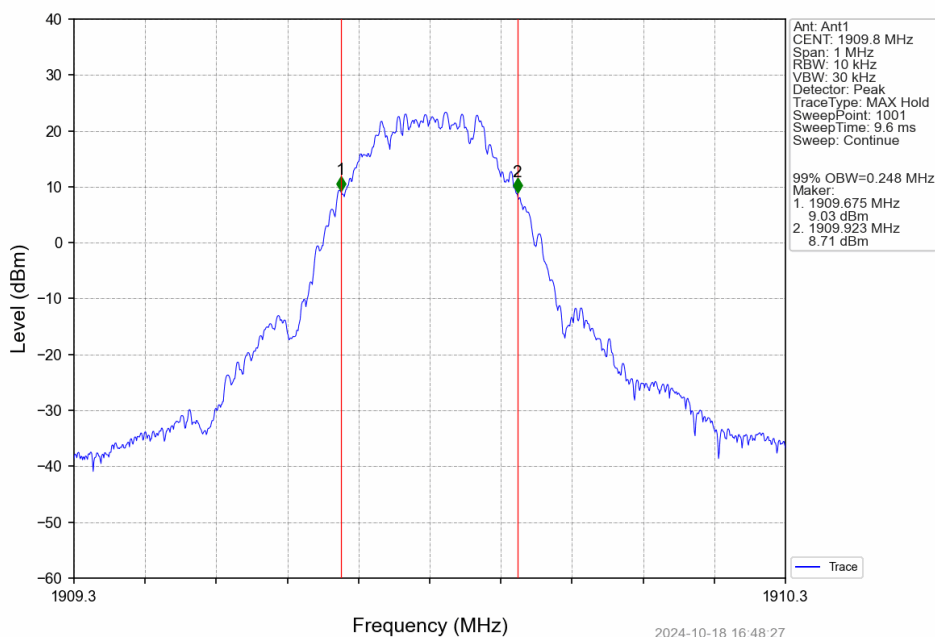
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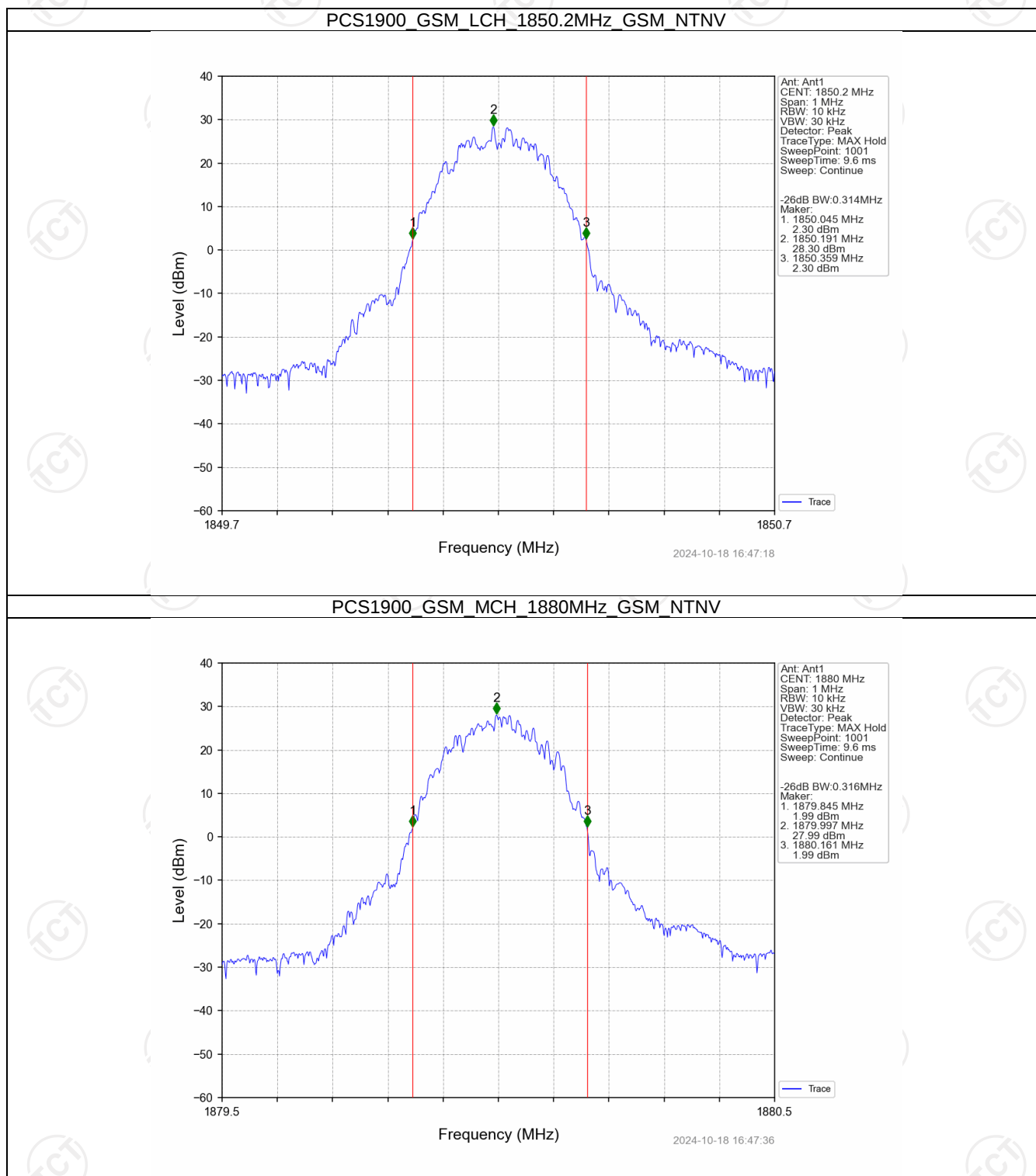
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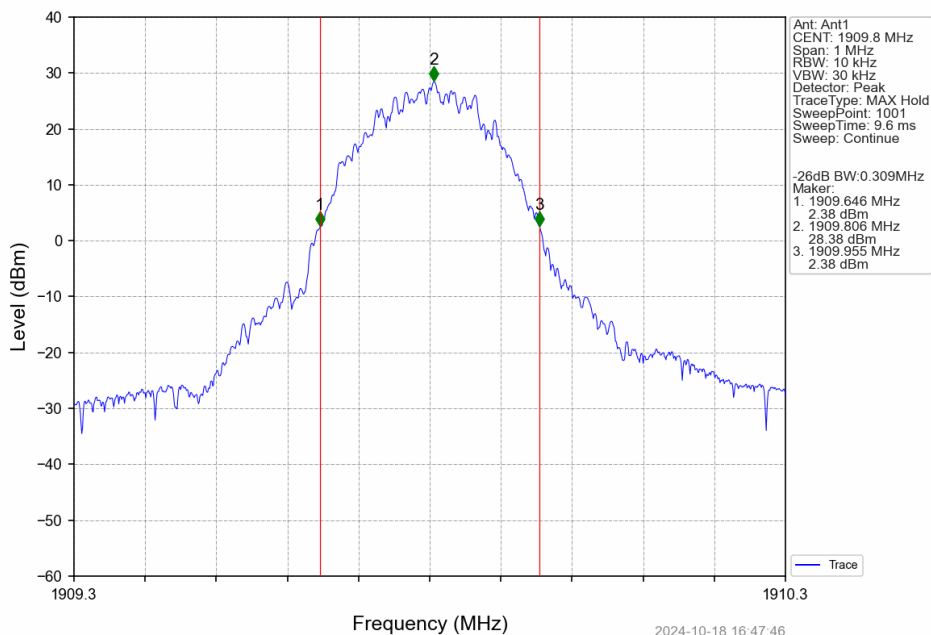
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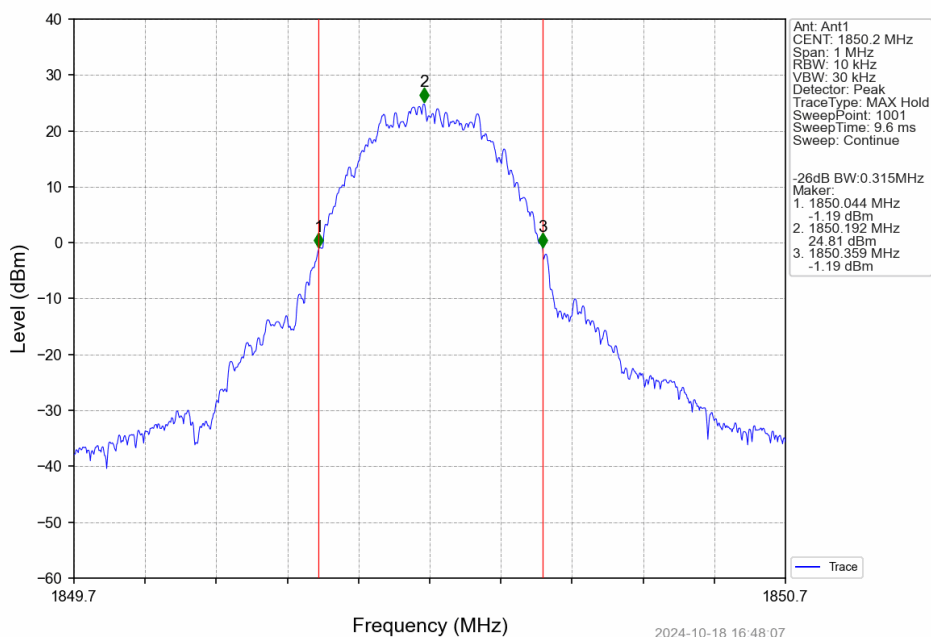
4.2.2 PCS1900_XDB



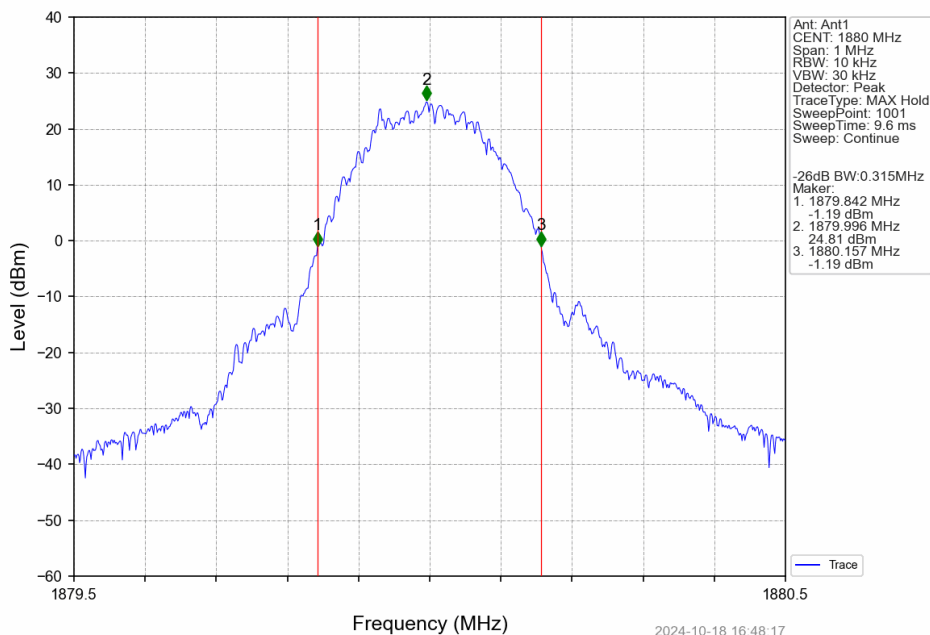
PCS1900 GSM HCH 1909.8MHz GSM NTN



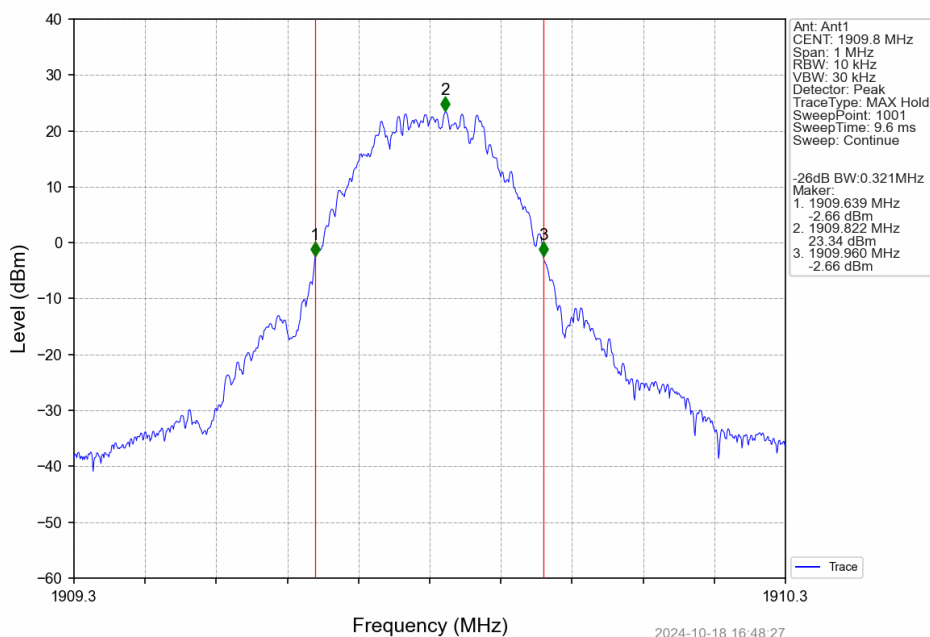
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PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



PCS1900 GPRS HCH 1909.8MHz 1 TX Slot NTNV



5. Peak-Average Ratio

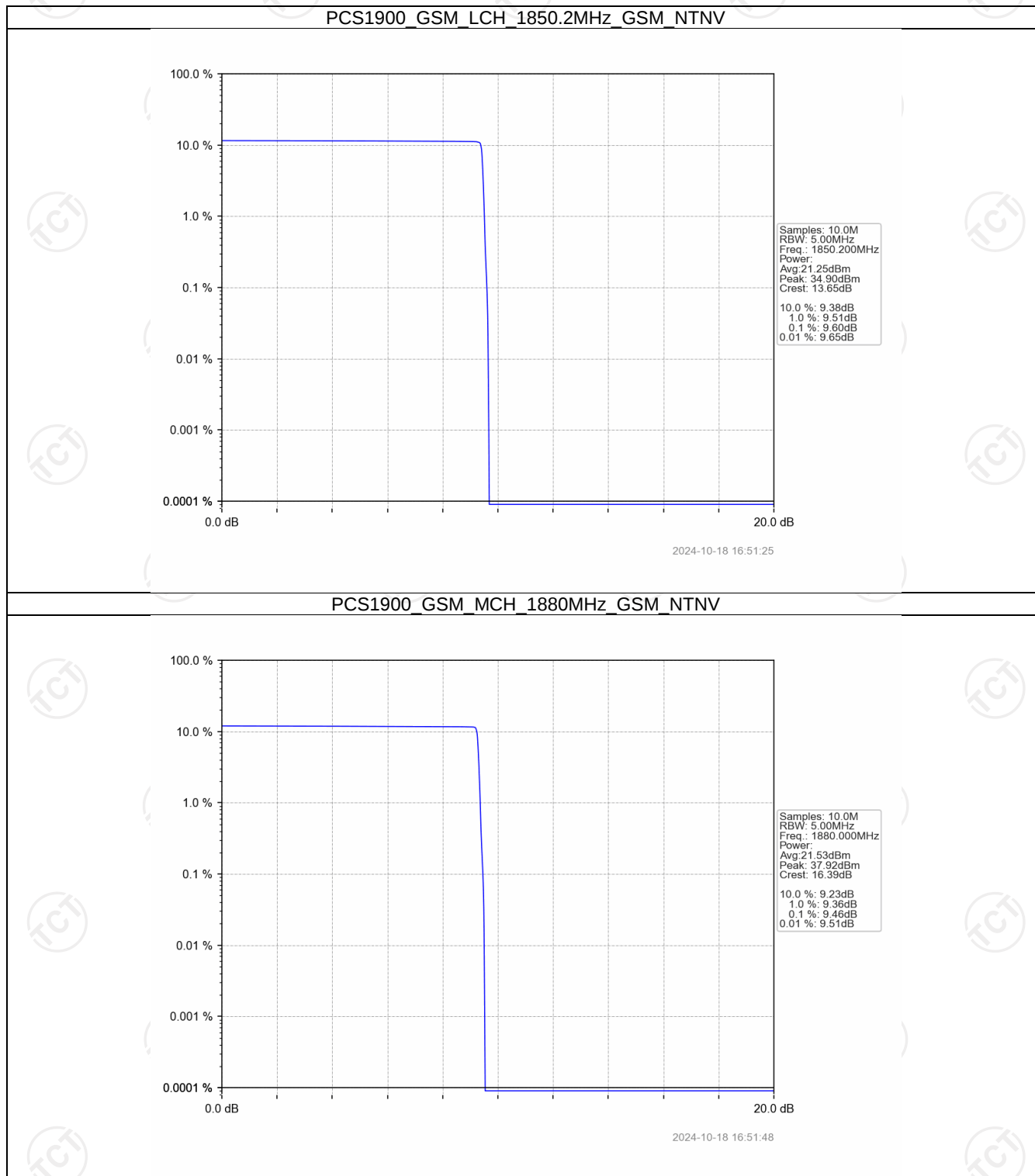
5.1 Test Result

5.1.1 PCS1900

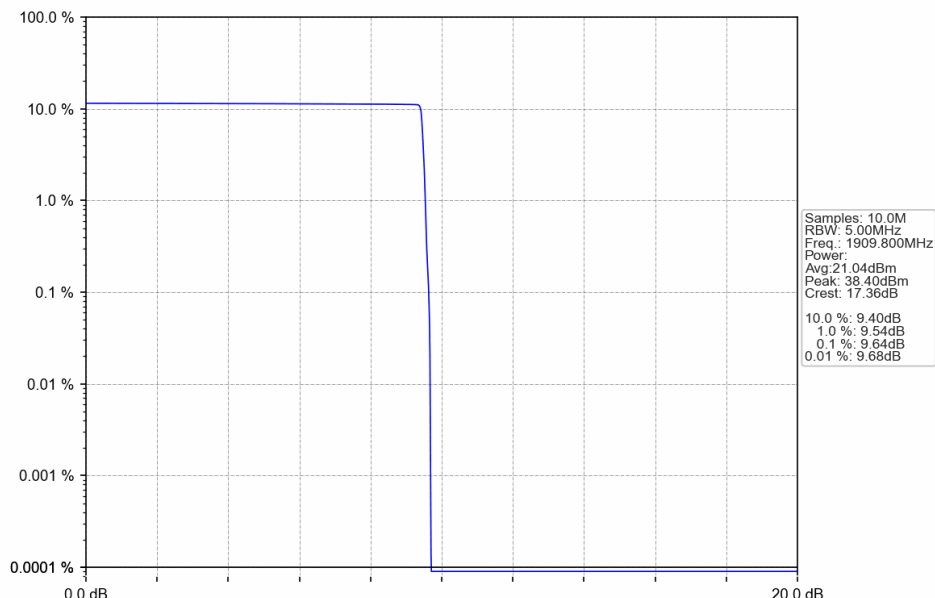
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.60	<=13	Pass
			1880	9.46	<=13	Pass
			1909.8	9.64	<=13	Pass
	GPRS	4 TX Slots	1850.2	4.00	<=13	Pass
			1880	3.78	<=13	Pass
			1909.8	3.93	<=13	Pass

5.2 Test Graph

5.2.1 PCS1900

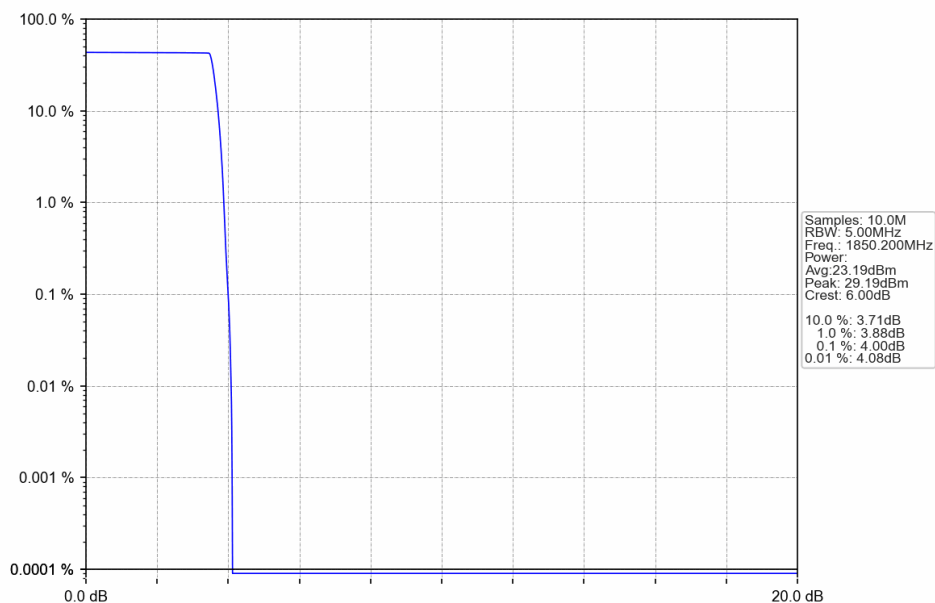


PCS1900 GSM HCH 1909.8MHz GSM NTN



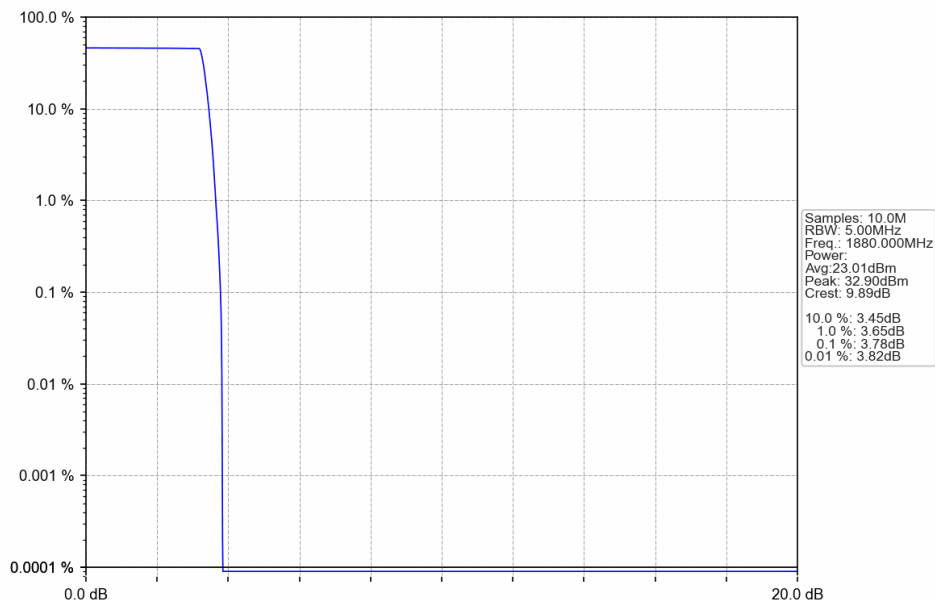
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PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTN



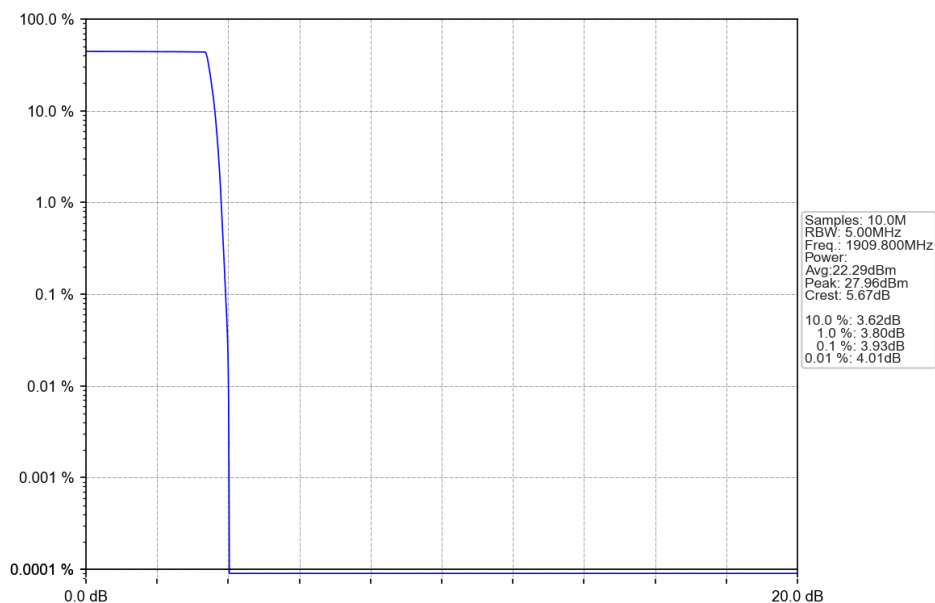
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PCS1900 GPRS MCH 1880MHz 4 TX Slots NTNV



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PCS1900 GPRS HCH 1909.8MHz 4 TX Slots NTNV



2024-10-18 16:52:46

6. Spurious Emission

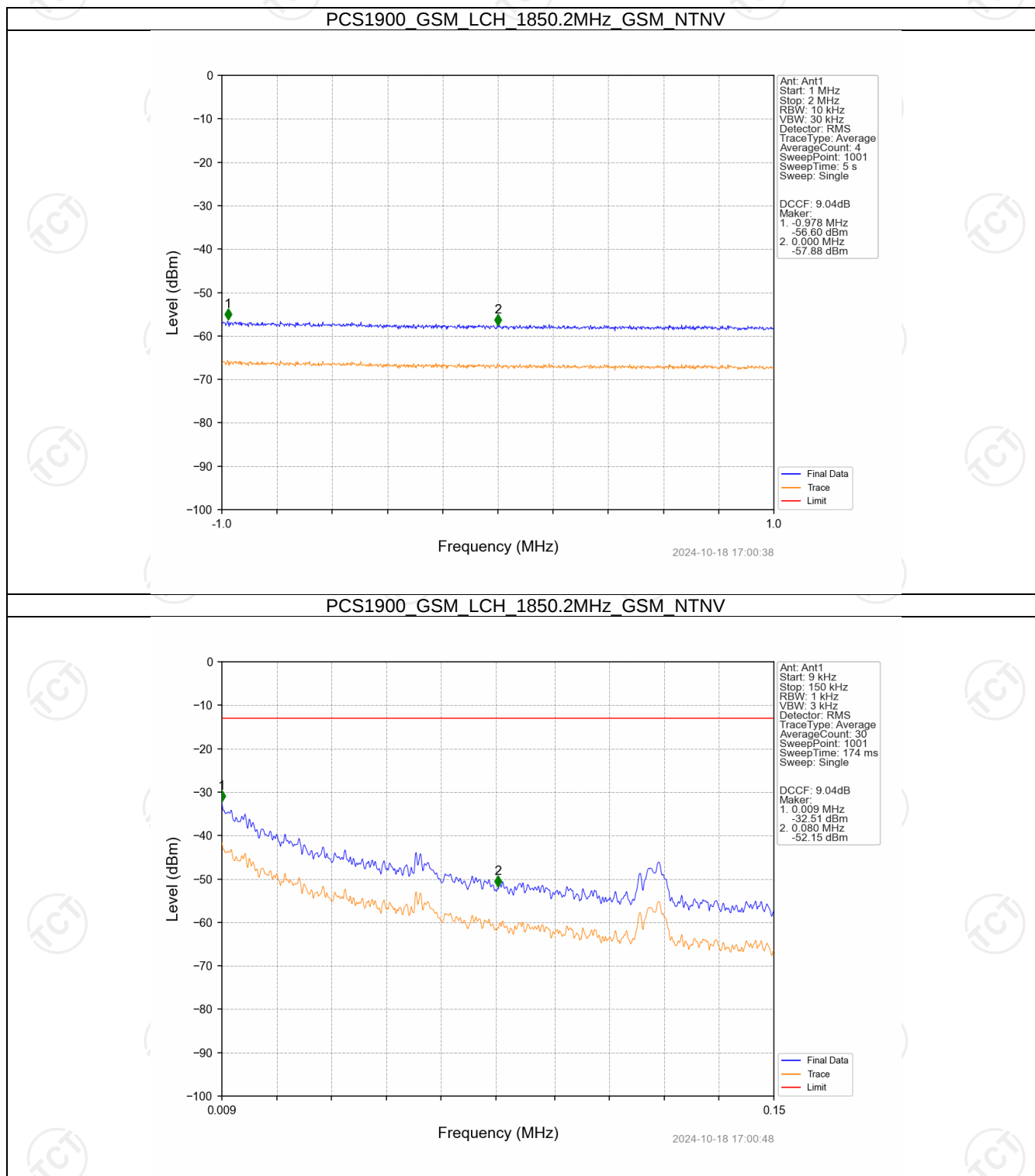
6.1 Test Result

6.1.1 PCS1900

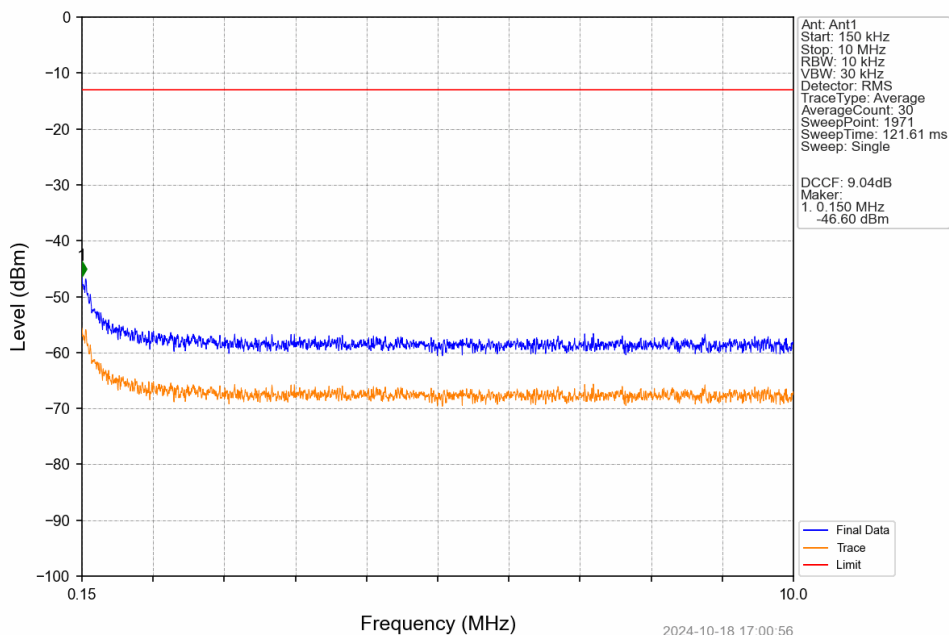
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass	
			1909.8	Refer To Test Graph	Pass	
	GPRS	1 TX Slot	1850.2	Refer To Test Graph	Pass	
			1880	Refer To Test Graph	Pass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

6.2 Test Graph

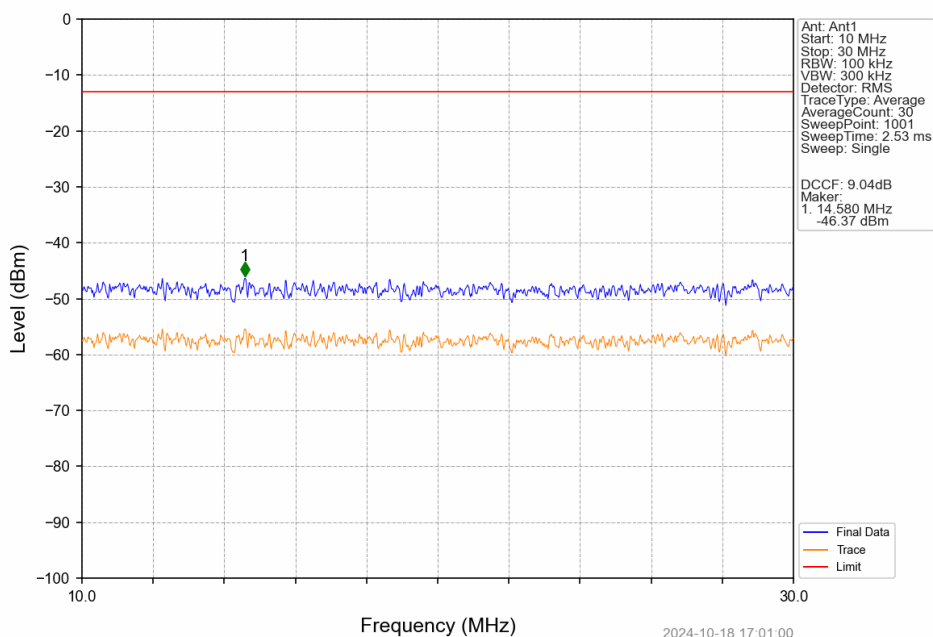
6.2.1 PCS1900



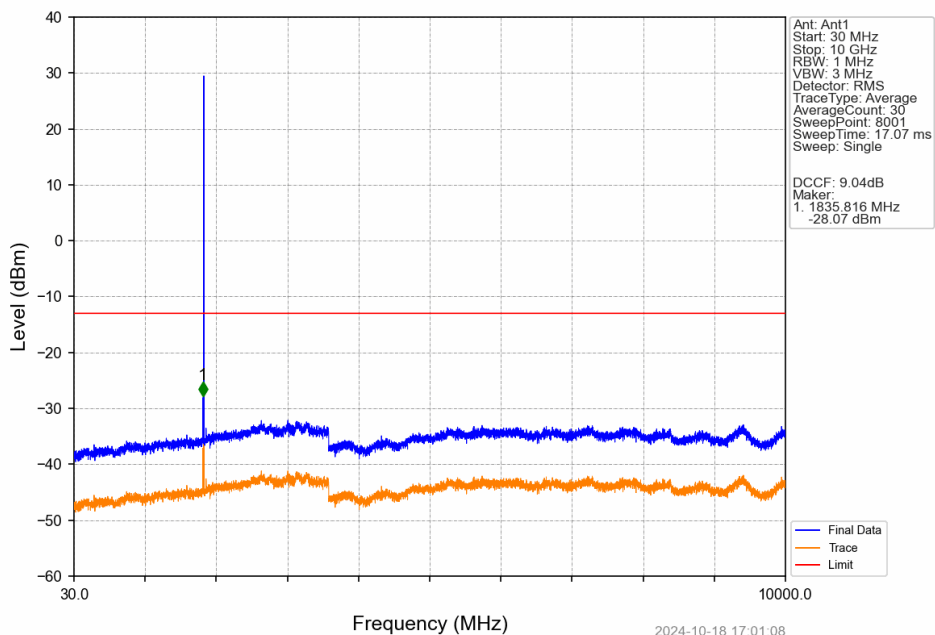
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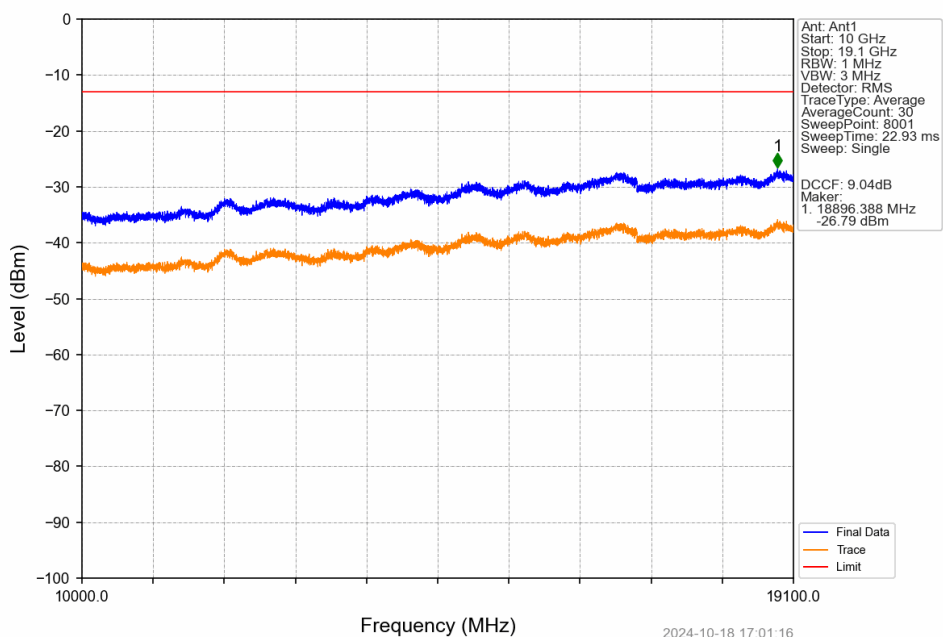
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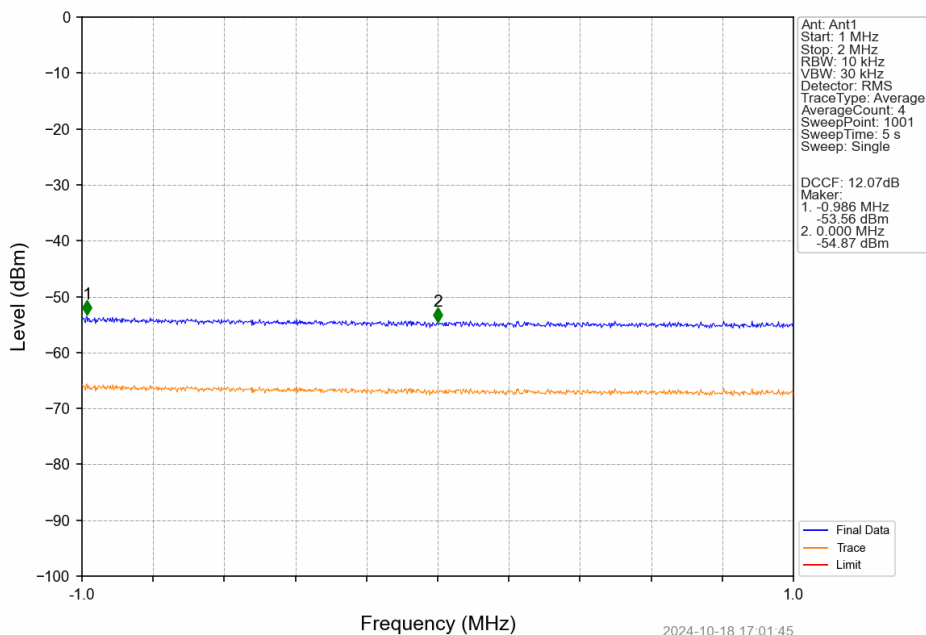
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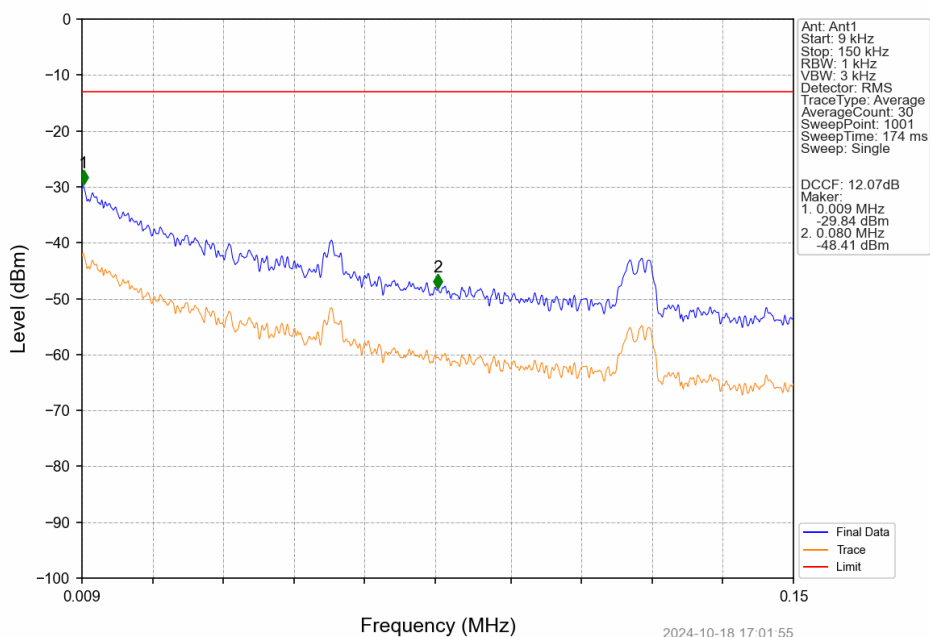
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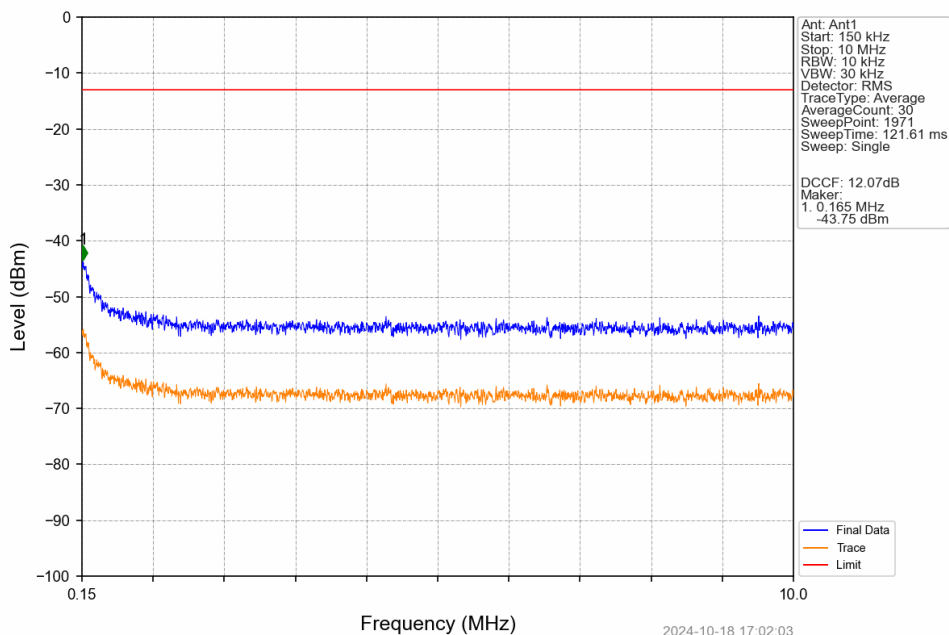
PCS1900 GSM MCH 1880MHz GSM NTNV



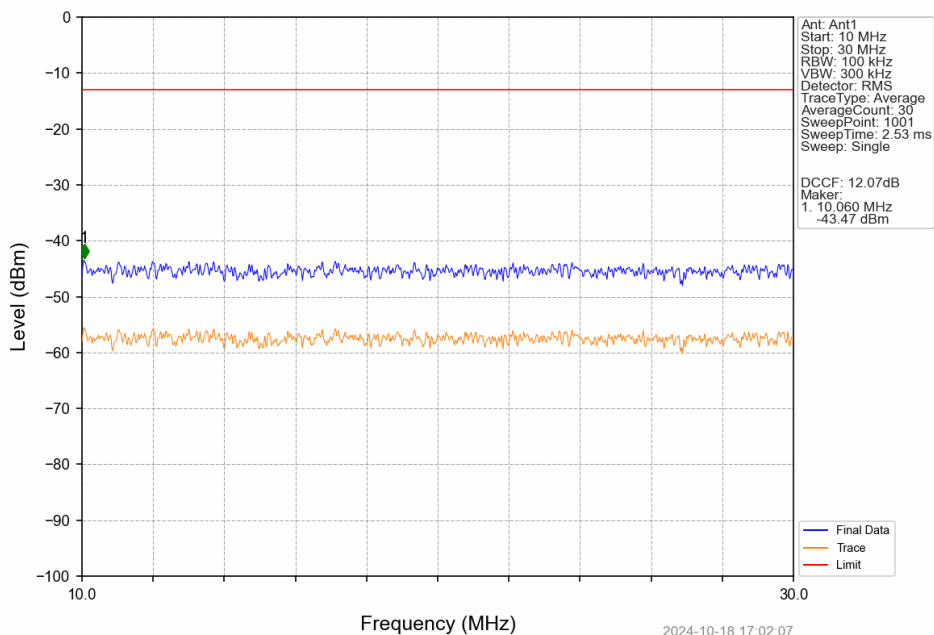
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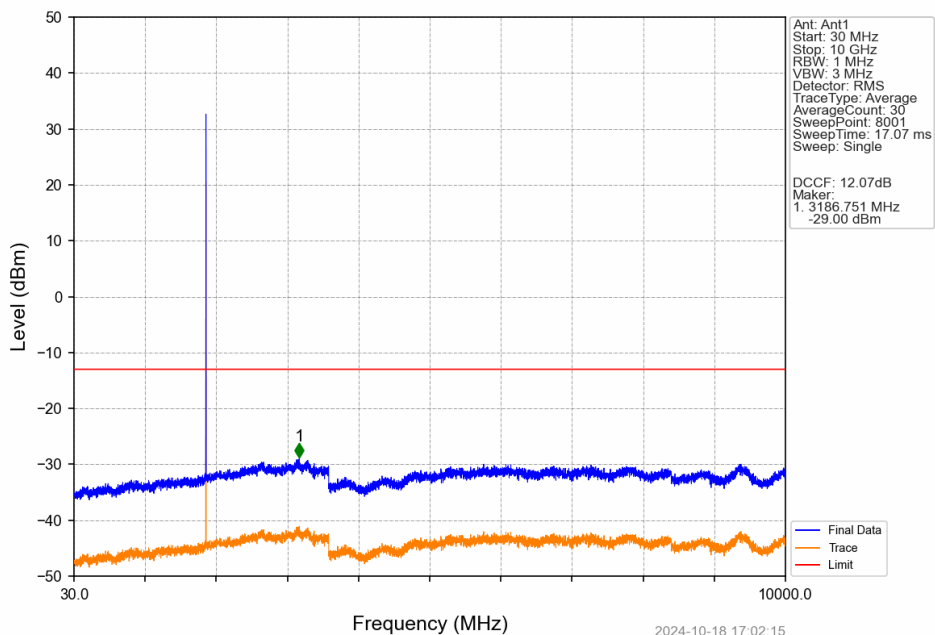
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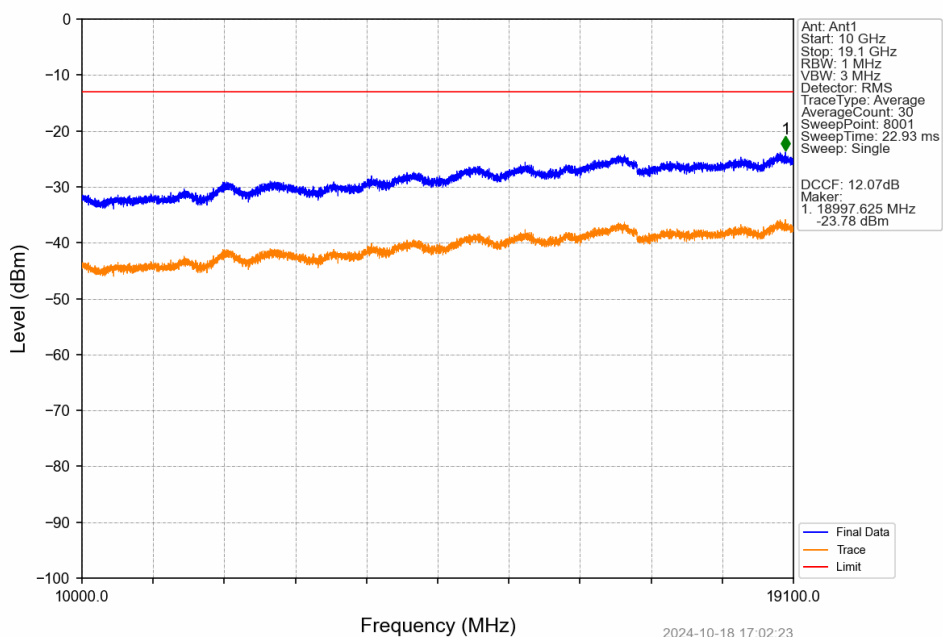
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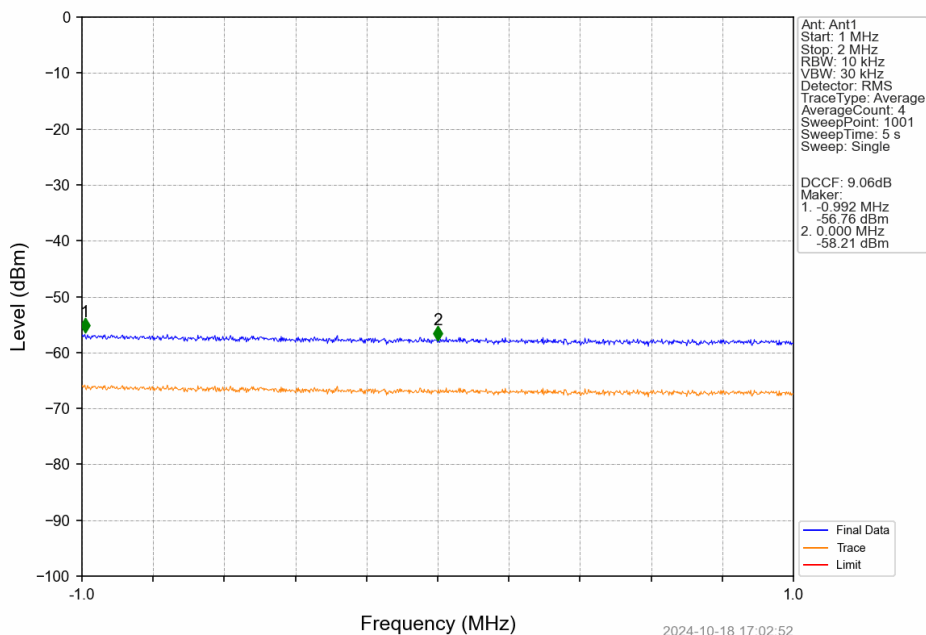
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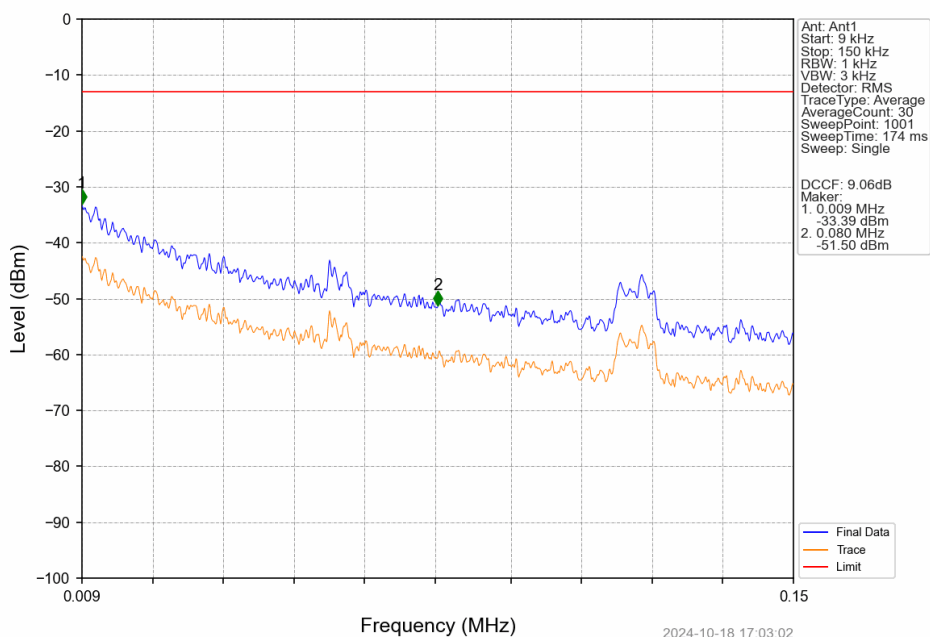
PCS1900 GSM MCH 1880MHz GSM NTNV



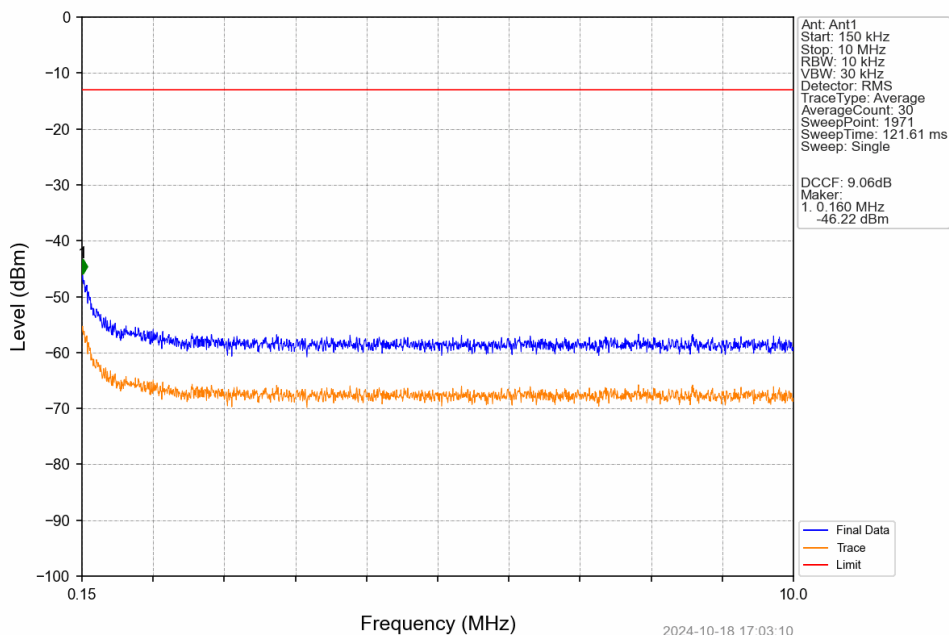
PCS1900 GSM HCH 1909.8MHz GSM NTNV



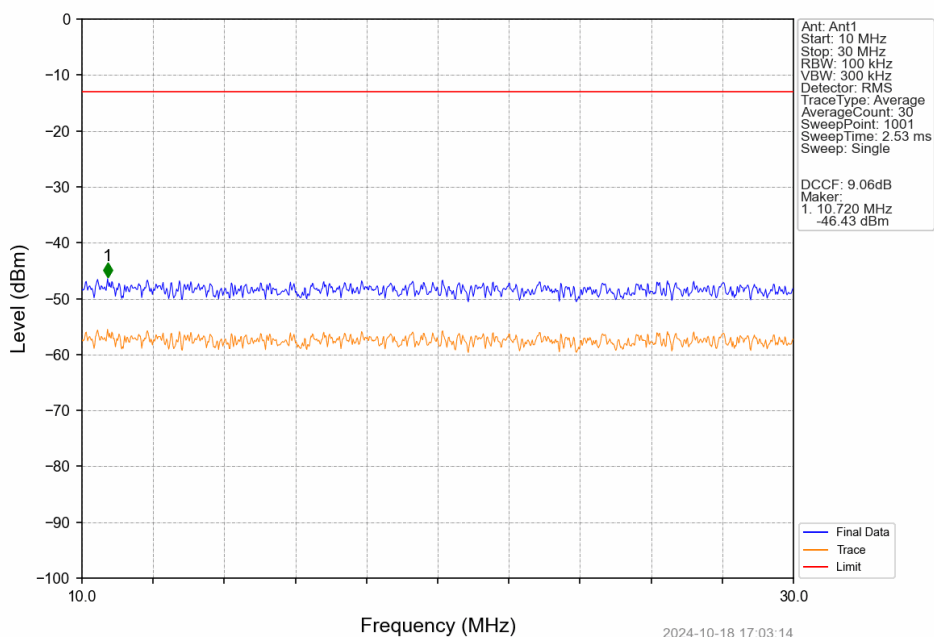
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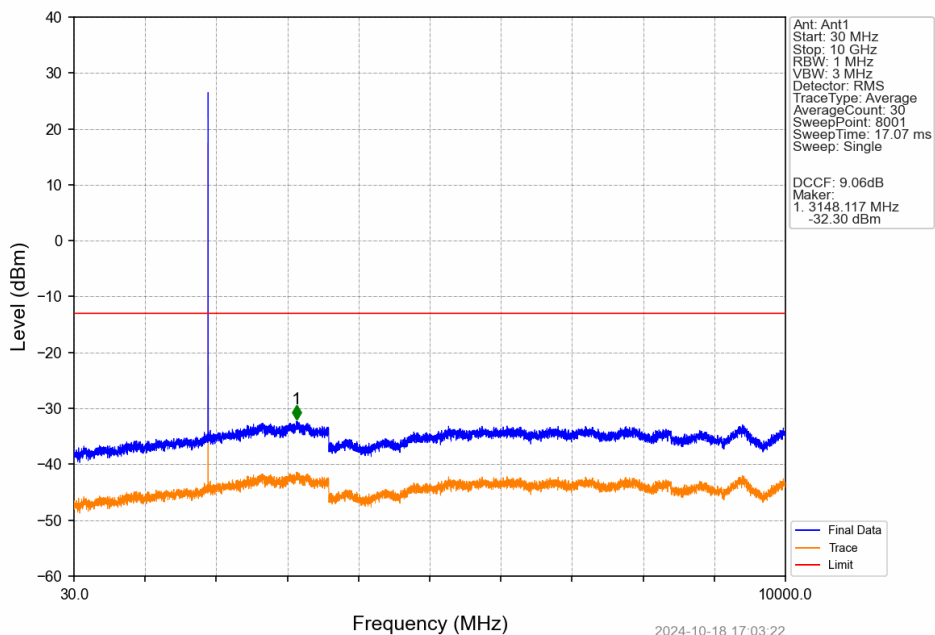
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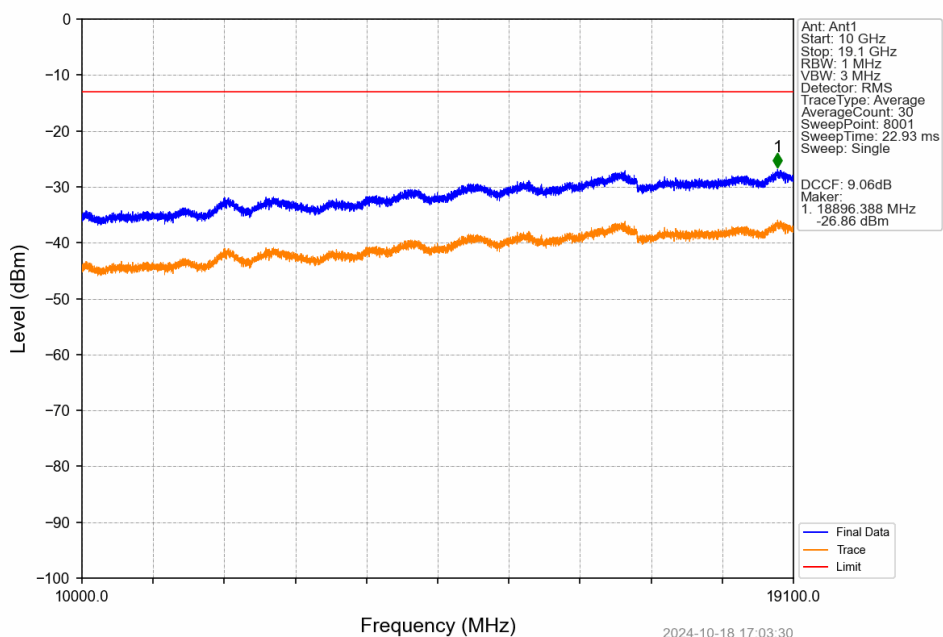
PCS1900 GSM HCH 1909.8MHz GSM NTN



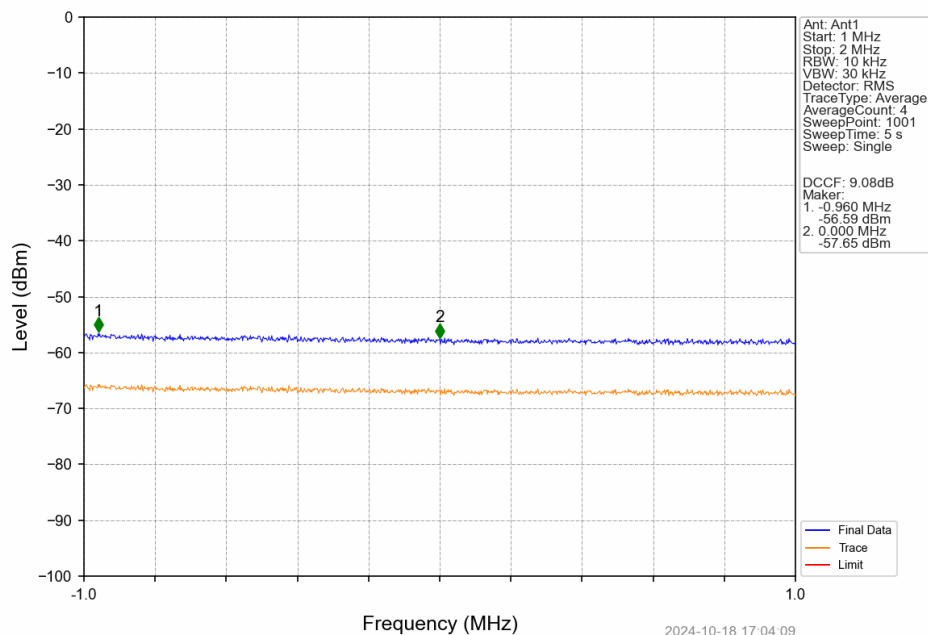
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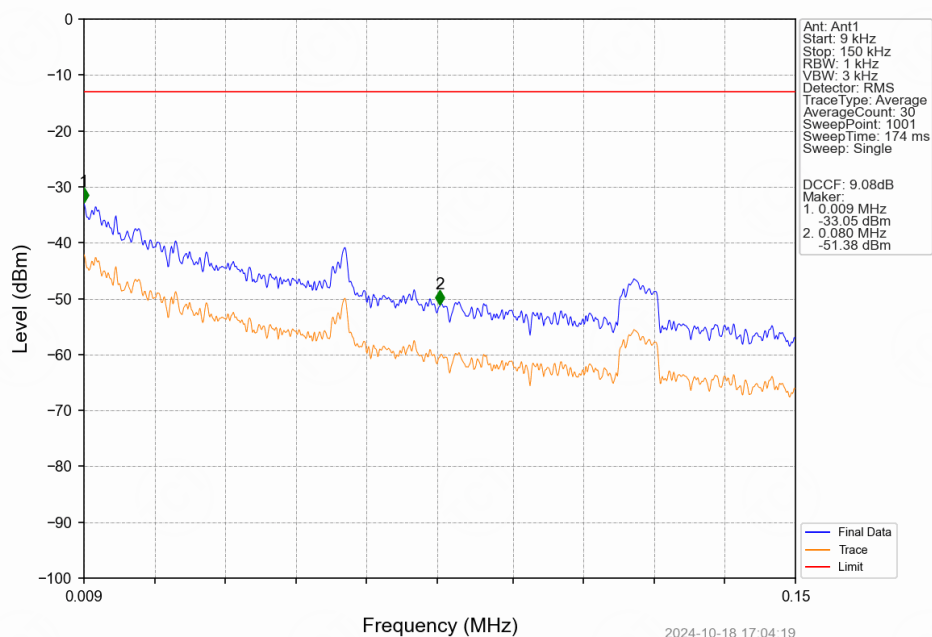
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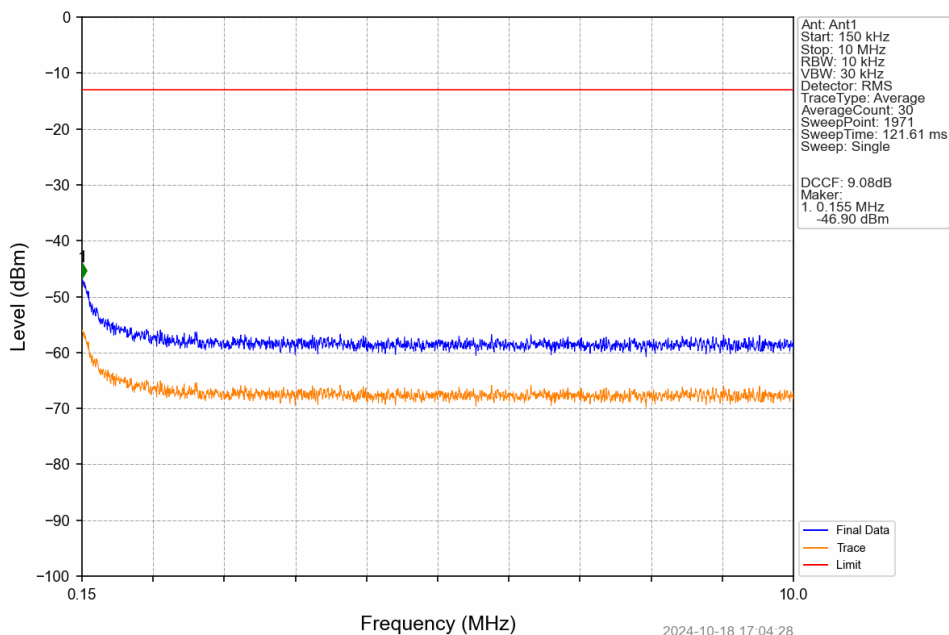
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTNV



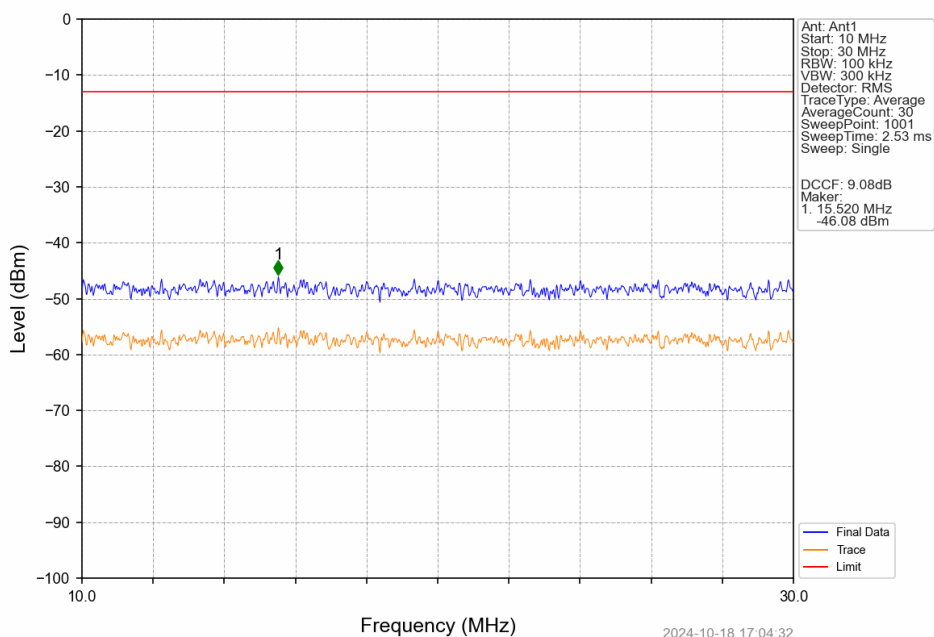
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTNV



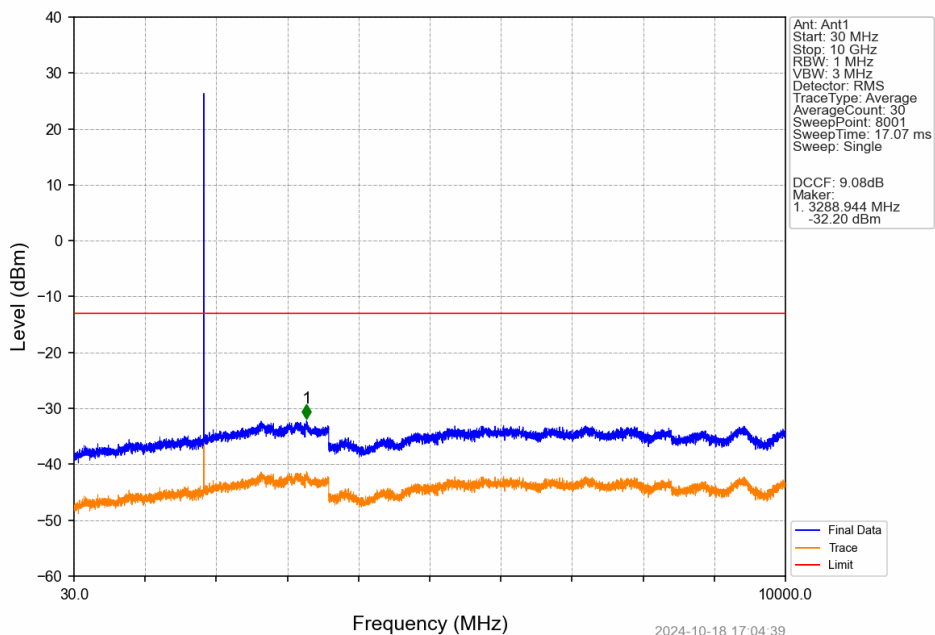
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTNV



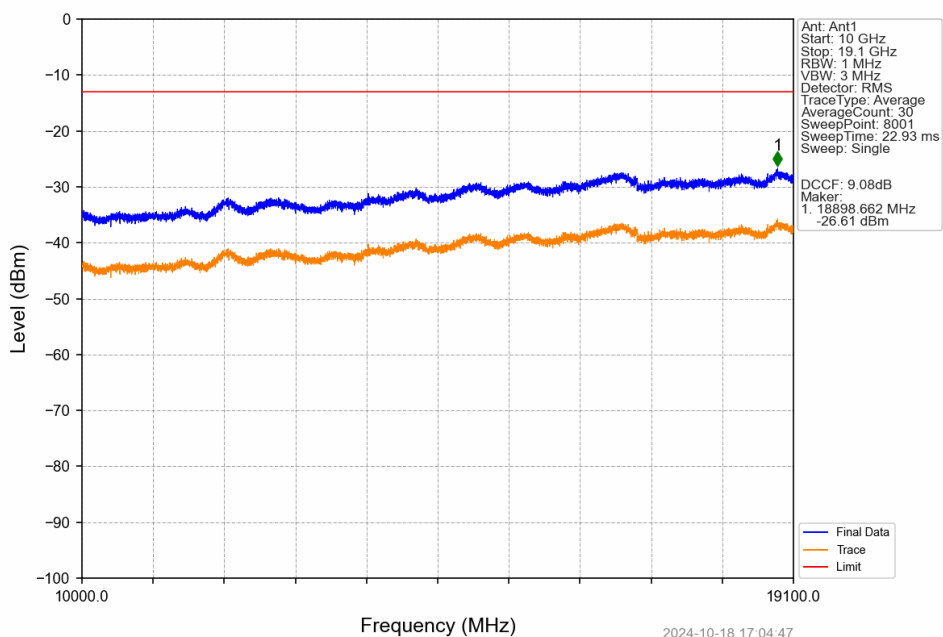
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTNV



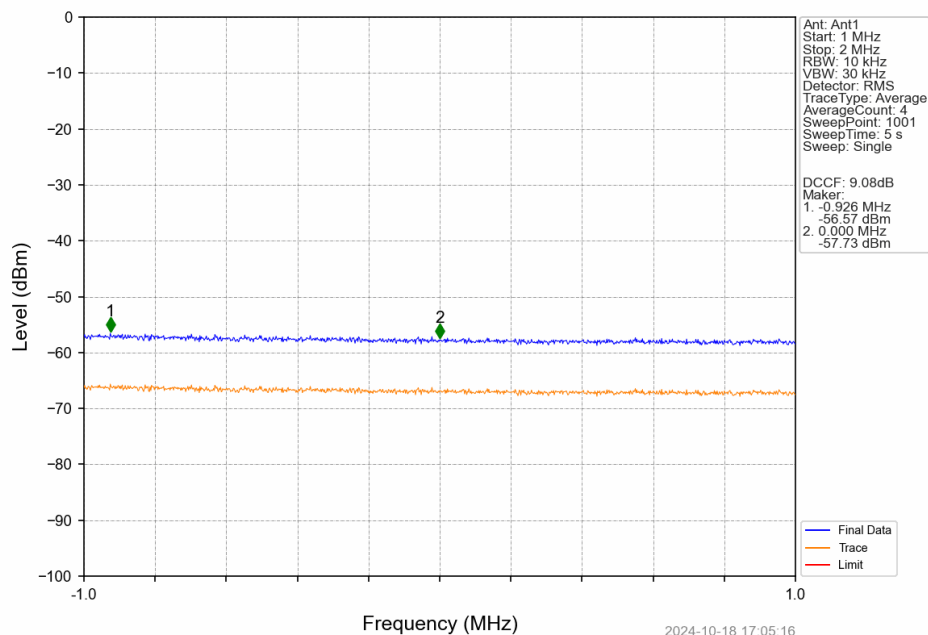
PCS1900 GPRS LCH 1850.2MHz 1 TX Slot NTNV



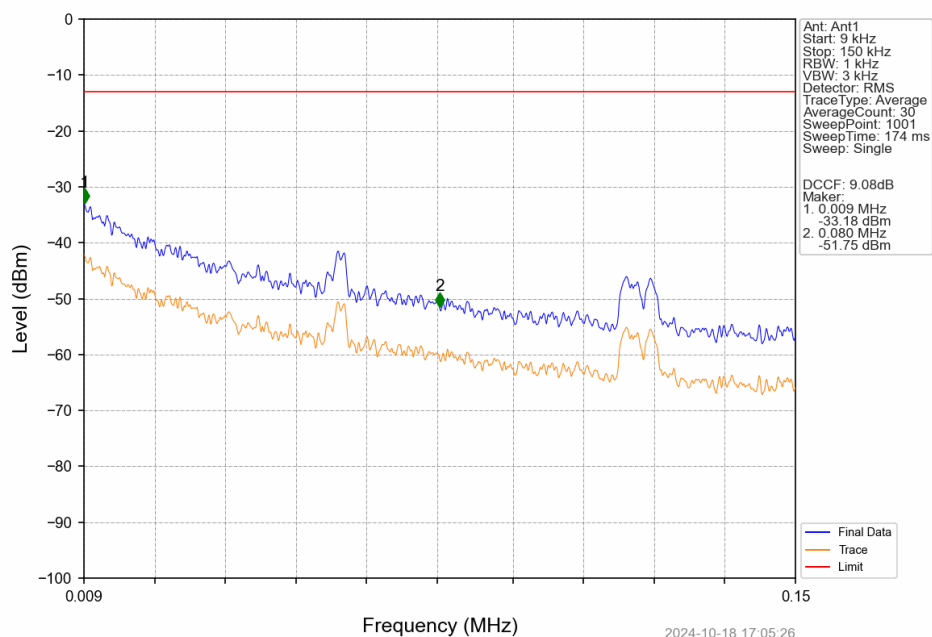
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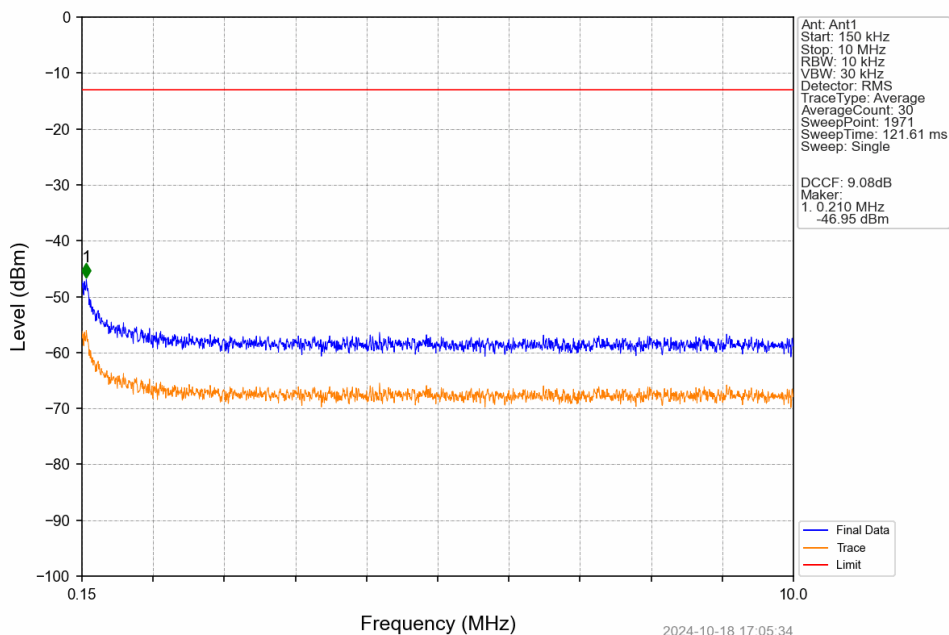
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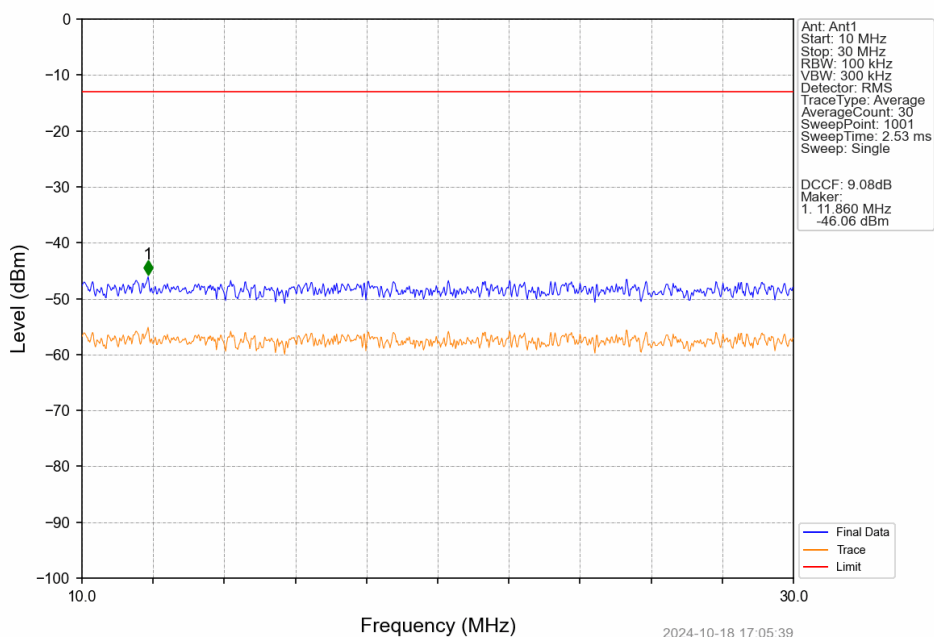
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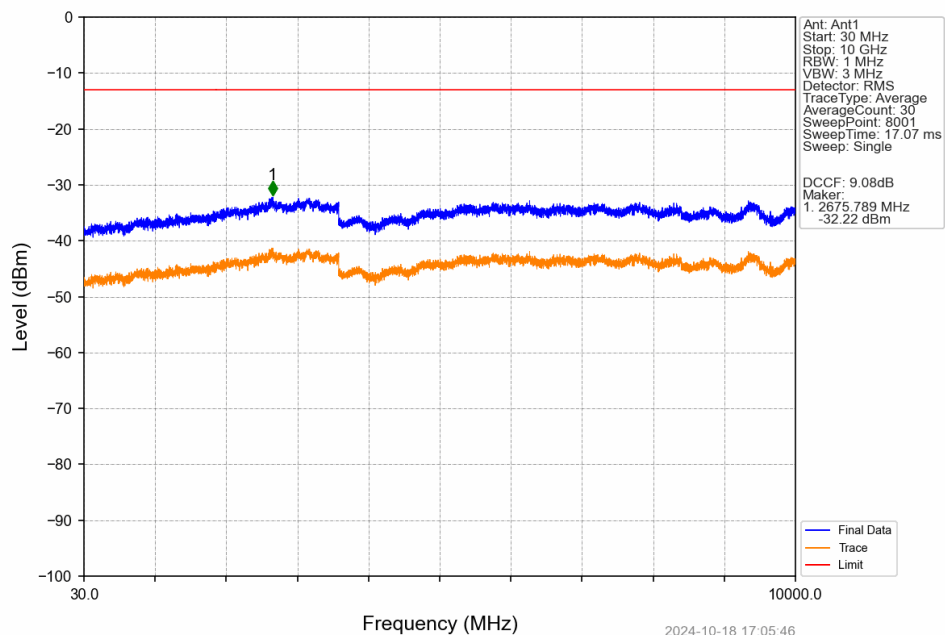
PCS1900 GPRS MCH 1880MHz 1 TX Slot NTNV



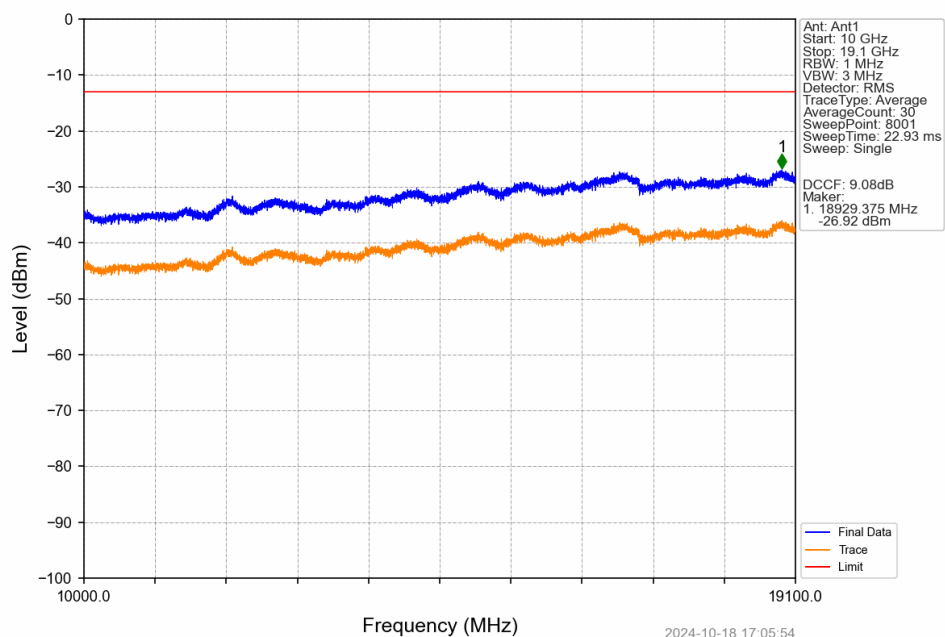
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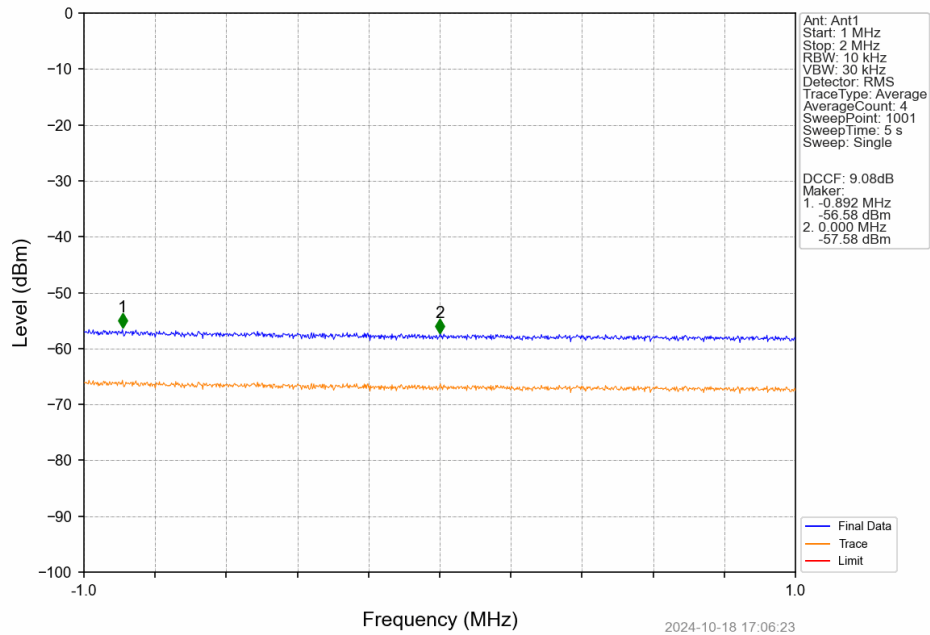
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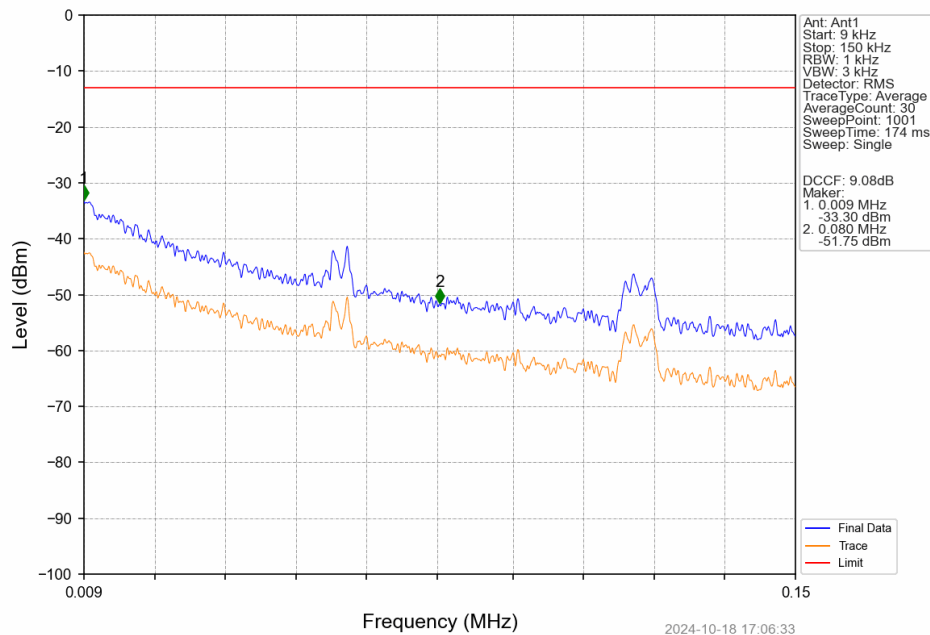
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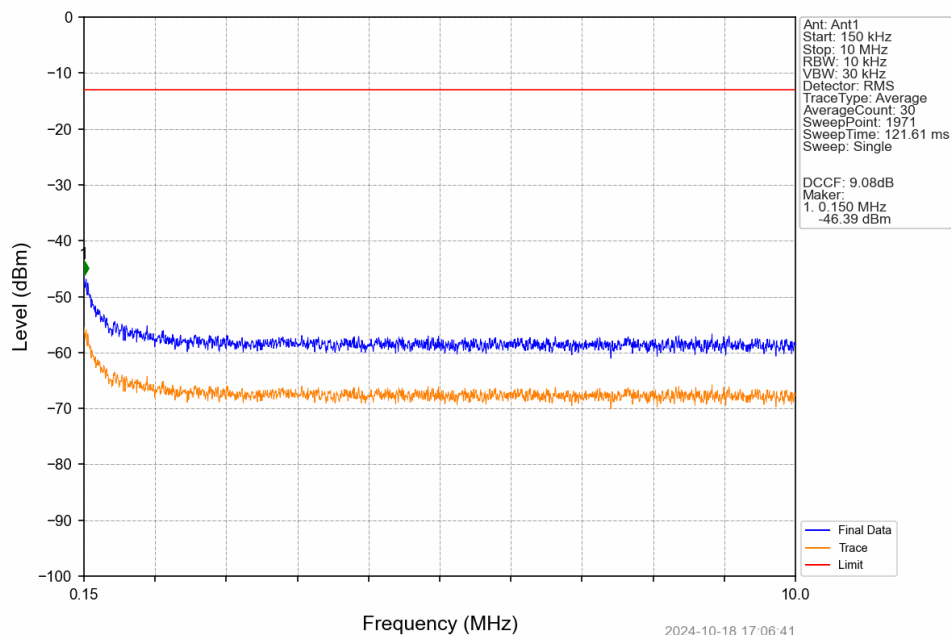
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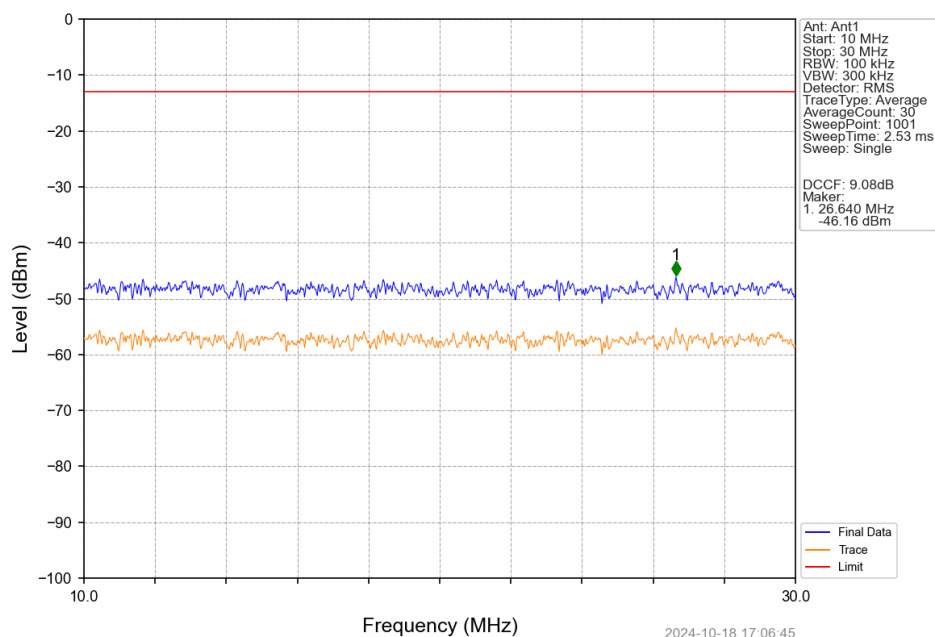
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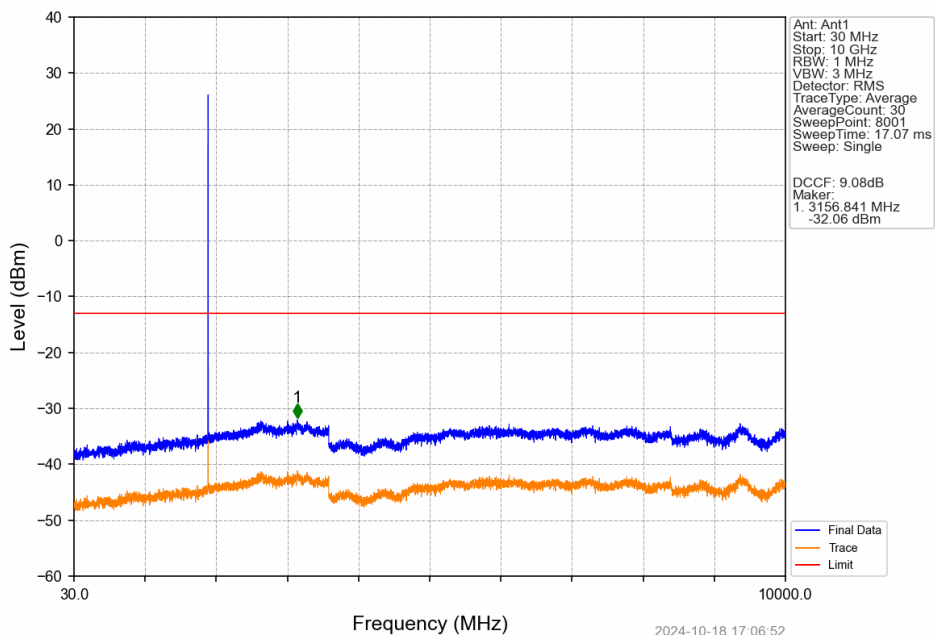
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