

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	GSM	GSM	1850.2	28.60	0.37	28.97	<=33.01	Pass	
			1880	28.75	0.37	29.12	<=33.01	Pass	
			1909.8	29.22	0.37	29.59	<=33.01	Pass	
	GPRS	1 TX Slot	1850.2	28.58	0.37	28.95	<=33.01	Pass	
		2 TX Slots	1850.2	27.64	0.37	28.01	<=33.01	Pass	
		3 TX Slots	1850.2	25.26	0.37	25.63	<=33.01	Pass	
		4 TX Slots	1850.2	24.14	0.37	24.51	<=33.01	Pass	
		1 TX Slot	1880	28.74	0.37	29.11	<=33.01	Pass	
		2 TX Slots	1880	27.73	0.37	28.10	<=33.01	Pass	
		3 TX Slots	1880	25.42	0.37	25.79	<=33.01	Pass	
		4 TX Slots	1880	24.34	0.37	24.71	<=33.01	Pass	
		1 TX Slot	1909.8	29.10	0.37	29.47	<=33.01	Pass	
		2 TX Slots	1909.8	28.29	0.37	28.66	<=33.01	Pass	
		3 TX Slots	1909.8	26.14	0.37	26.51	<=33.01	Pass	
		4 TX Slots	1909.8	26.20	0.37	26.57	<=33.01	Pass	
		EGPRS	1 TX Slot	1850.2	26.75	0.37	27.12	<=33.01	Pass
			2 TX Slots	1850.2	26.56	0.37	26.93	<=33.01	Pass
			3 TX Slots	1850.2	25.94	0.37	26.31	<=33.01	Pass
			4 TX Slots	1850.2	25.42	0.37	25.79	<=33.01	Pass
			1 TX Slot	1880	27.05	0.37	27.42	<=33.01	Pass
			2 TX Slots	1880	26.99	0.37	27.36	<=33.01	Pass
	3 TX Slots		1880	26.59	0.37	26.96	<=33.01	Pass	
	4 TX Slots		1880	25.94	0.37	26.31	<=33.01	Pass	
	1 TX Slot		1909.8	27.58	0.37	27.95	<=33.01	Pass	
	2 TX Slots		1909.8	27.51	0.37	27.88	<=33.01	Pass	
	3 TX Slots		1909.8	26.92	0.37	27.29	<=33.01	Pass	
	4 TX Slots		1909.8	26.44	0.37	26.81	<=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	

GSM	1850.2	20	3.27	23.343	0.0126	-2.5 to 2.5	Pass
			3.85	23.310	0.0126	-2.5 to 2.5	Pass
			4.43	25.441	0.0138	-2.5 to 2.5	Pass
		-30	3.85	24.860	0.0134	-2.5 to 2.5	Pass
		-20	3.85	26.733	0.0144	-2.5 to 2.5	Pass
		-10	3.85	25.248	0.0136	-2.5 to 2.5	Pass
		0	3.85	26.184	0.0142	-2.5 to 2.5	Pass
		10	3.85	25.118	0.0136	-2.5 to 2.5	Pass
		30	3.85	26.604	0.0144	-2.5 to 2.5	Pass
		40	3.85	25.054	0.0135	-2.5 to 2.5	Pass
		50	3.85	31.188	0.0169	-2.5 to 2.5	Pass
	1880	20	3.27	27.637	0.0147	-2.5 to 2.5	Pass
			3.85	25.215	0.0134	-2.5 to 2.5	Pass
			4.43	23.084	0.0123	-2.5 to 2.5	Pass
		-30	3.85	26.087	0.0139	-2.5 to 2.5	Pass
		-20	3.85	25.377	0.0135	-2.5 to 2.5	Pass
		-10	3.85	24.118	0.0128	-2.5 to 2.5	Pass
		0	3.85	22.471	0.0120	-2.5 to 2.5	Pass
		10	3.85	25.086	0.0133	-2.5 to 2.5	Pass
		30	3.85	20.760	0.0110	-2.5 to 2.5	Pass
		40	3.85	22.310	0.0119	-2.5 to 2.5	Pass
		50	3.85	21.244	0.0113	-2.5 to 2.5	Pass
	1909.8	20	3.27	27.378	0.0143	-2.5 to 2.5	Pass
			3.85	27.314	0.0143	-2.5 to 2.5	Pass
			4.43	29.961	0.0157	-2.5 to 2.5	Pass
		-30	3.85	29.961	0.0157	-2.5 to 2.5	Pass
		-20	3.85	33.900	0.0178	-2.5 to 2.5	Pass
		-10	3.85	25.732	0.0135	-2.5 to 2.5	Pass
		0	3.85	28.767	0.0151	-2.5 to 2.5	Pass
		10	3.85	29.445	0.0154	-2.5 to 2.5	Pass
		30	3.85	31.382	0.0164	-2.5 to 2.5	Pass
		40	3.85	29.897	0.0157	-2.5 to 2.5	Pass
		50	3.85	29.380	0.0154	-2.5 to 2.5	Pass
GPRS	1850.2	20	3.27	25.441	0.0138	-2.5 to 2.5	Pass
			3.85	23.149	0.0125	-2.5 to 2.5	Pass
			4.43	23.666	0.0128	-2.5 to 2.5	Pass
		-30	3.85	27.830	0.0150	-2.5 to 2.5	Pass
		-20	3.85	23.149	0.0125	-2.5 to 2.5	Pass
		-10	3.85	25.151	0.0136	-2.5 to 2.5	Pass
		0	3.85	22.697	0.0123	-2.5 to 2.5	Pass
		10	3.85	19.210	0.0104	-2.5 to 2.5	Pass
		30	3.85	20.114	0.0109	-2.5 to 2.5	Pass
		40	3.85	30.381	0.0164	-2.5 to 2.5	Pass
		50	3.85	25.312	0.0137	-2.5 to 2.5	Pass
	1880	20	3.27	24.440	0.0130	-2.5 to 2.5	Pass
			3.85	25.280	0.0134	-2.5 to 2.5	Pass
			4.43	21.083	0.0112	-2.5 to 2.5	Pass
		-30	3.85	21.728	0.0116	-2.5 to 2.5	Pass
		-20	3.85	19.016	0.0101	-2.5 to 2.5	Pass
		-10	3.85	22.406	0.0119	-2.5 to 2.5	Pass
		0	3.85	24.182	0.0129	-2.5 to 2.5	Pass
		10	3.85	18.242	0.0097	-2.5 to 2.5	Pass
		30	3.85	23.117	0.0123	-2.5 to 2.5	Pass
		40	3.85	23.633	0.0126	-2.5 to 2.5	Pass
		50	3.85	23.633	0.0126	-2.5 to 2.5	Pass

	1909.8	20	3.27	18.209	0.0095	-2.5 to 2.5	Pass
			3.85	24.311	0.0127	-2.5 to 2.5	Pass
			4.43	25.054	0.0131	-2.5 to 2.5	Pass
		-30	3.85	20.954	0.0110	-2.5 to 2.5	Pass
		-20	3.85	22.213	0.0116	-2.5 to 2.5	Pass
		-10	3.85	27.088	0.0142	-2.5 to 2.5	Pass
		0	3.85	27.572	0.0144	-2.5 to 2.5	Pass
		10	3.85	25.893	0.0136	-2.5 to 2.5	Pass
		30	3.85	23.698	0.0124	-2.5 to 2.5	Pass
		40	3.85	20.986	0.0110	-2.5 to 2.5	Pass
EGPRS	1850.2	20	3.27	24.828	0.0134	-2.5 to 2.5	Pass
			3.85	18.048	0.0098	-2.5 to 2.5	Pass
			4.43	23.698	0.0128	-2.5 to 2.5	Pass
		-30	3.85	23.633	0.0128	-2.5 to 2.5	Pass
		-20	3.85	14.884	0.0080	-2.5 to 2.5	Pass
		-10	3.85	17.370	0.0094	-2.5 to 2.5	Pass
		0	3.85	22.439	0.0121	-2.5 to 2.5	Pass
		10	3.85	14.593	0.0079	-2.5 to 2.5	Pass
		30	3.85	22.697	0.0123	-2.5 to 2.5	Pass
		40	3.85	19.565	0.0106	-2.5 to 2.5	Pass
		50	3.85	23.343	0.0126	-2.5 to 2.5	Pass
	1880	20	3.27	22.471	0.0120	-2.5 to 2.5	Pass
			3.85	24.666	0.0131	-2.5 to 2.5	Pass
			4.43	25.118	0.0134	-2.5 to 2.5	Pass
		-30	3.85	15.691	0.0083	-2.5 to 2.5	Pass
		-20	3.85	20.146	0.0107	-2.5 to 2.5	Pass
		-10	3.85	20.405	0.0109	-2.5 to 2.5	Pass
		0	3.85	22.794	0.0121	-2.5 to 2.5	Pass
		10	3.85	11.365	0.0060	-2.5 to 2.5	Pass
		30	3.85	15.562	0.0083	-2.5 to 2.5	Pass
		40	3.85	23.601	0.0126	-2.5 to 2.5	Pass
		50	3.85	18.887	0.0100	-2.5 to 2.5	Pass
	1909.8	20	3.27	18.371	0.0096	-2.5 to 2.5	Pass
			3.85	16.434	0.0086	-2.5 to 2.5	Pass
			4.43	14.819	0.0078	-2.5 to 2.5	Pass
		-30	3.85	17.079	0.0089	-2.5 to 2.5	Pass
		-20	3.85	20.308	0.0106	-2.5 to 2.5	Pass
		-10	3.85	13.754	0.0072	-2.5 to 2.5	Pass
		0	3.85	17.144	0.0090	-2.5 to 2.5	Pass
		10	3.85	19.113	0.0100	-2.5 to 2.5	Pass
		30	3.85	17.757	0.0093	-2.5 to 2.5	Pass
		40	3.85	13.625	0.0071	-2.5 to 2.5	Pass
		50	3.85	12.204	0.0064	-2.5 to 2.5	Pass

3. Modulation Characteristics

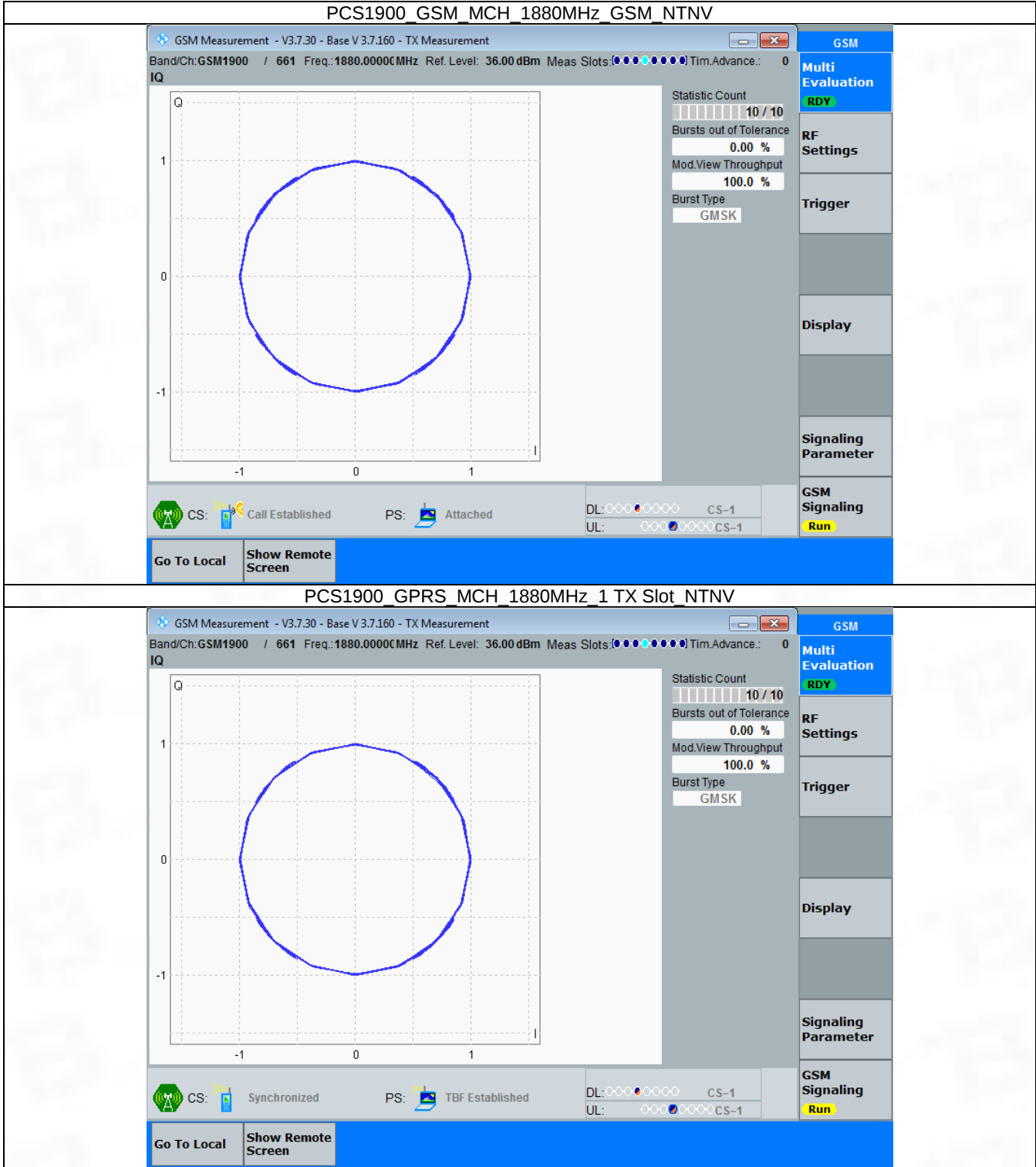
3.1 PCS1900

3.1.1 Test Result

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

NTNV	GSM	GSM	1880	Refer To Test Graph	Pass
	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



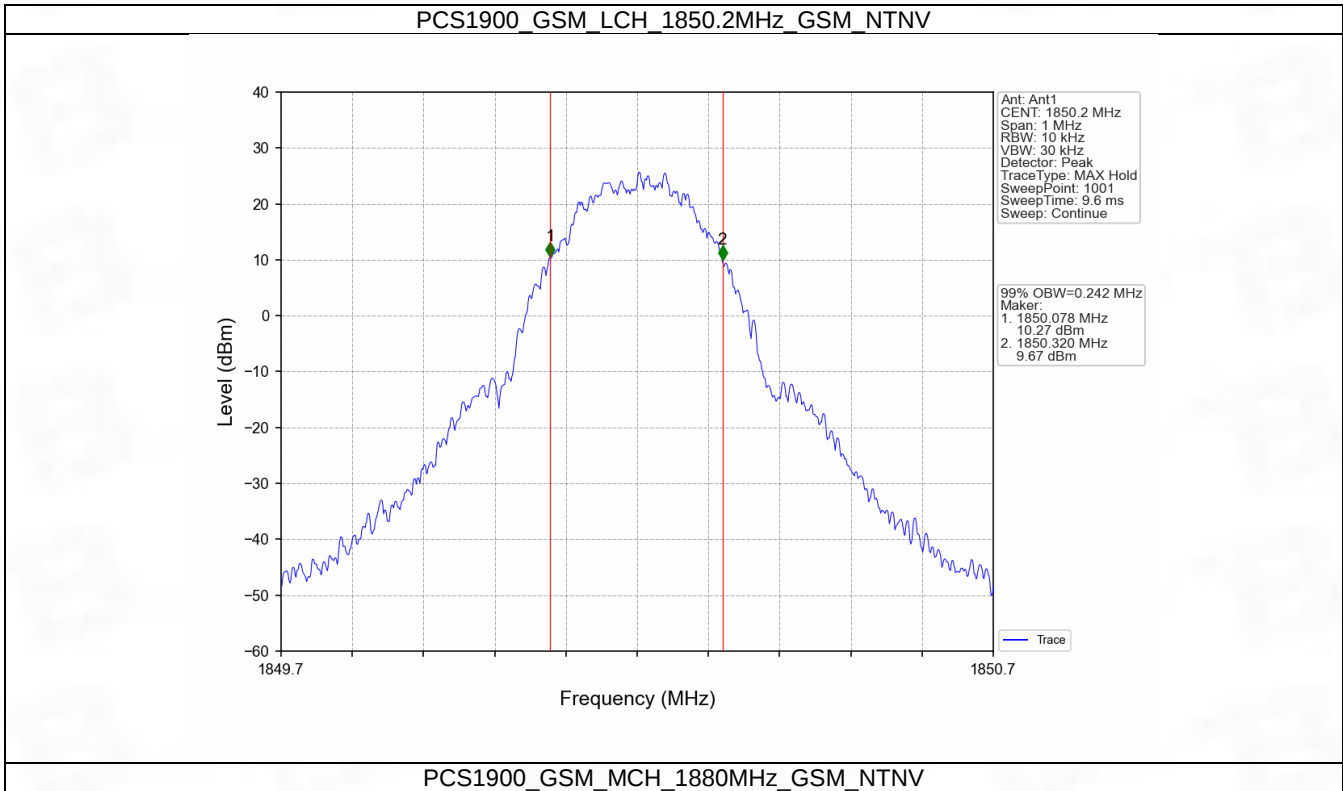
4. 99% & 26dB Bandwidth

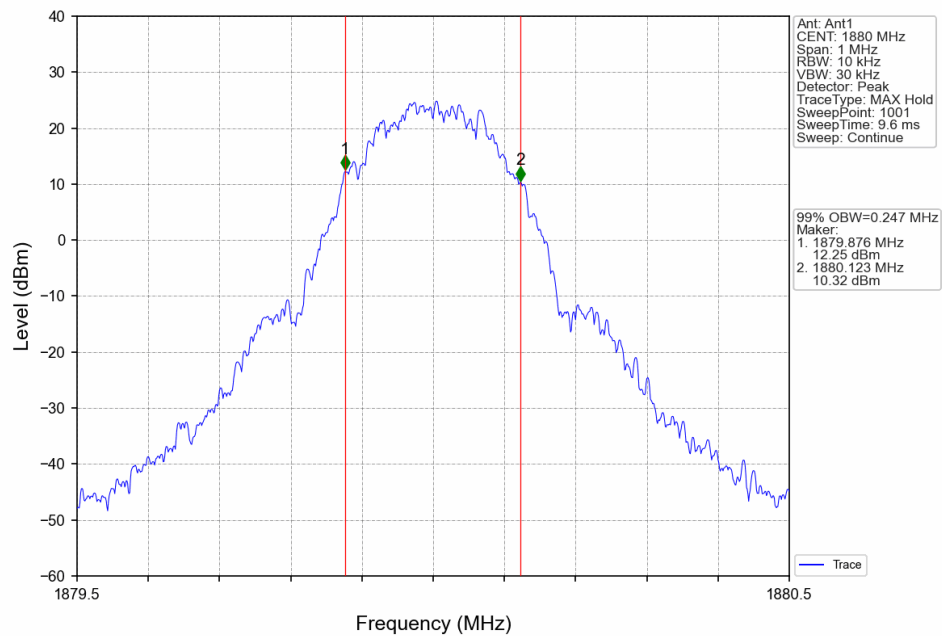
4.1 PCS1900_OBW

4.1.1 Test Result

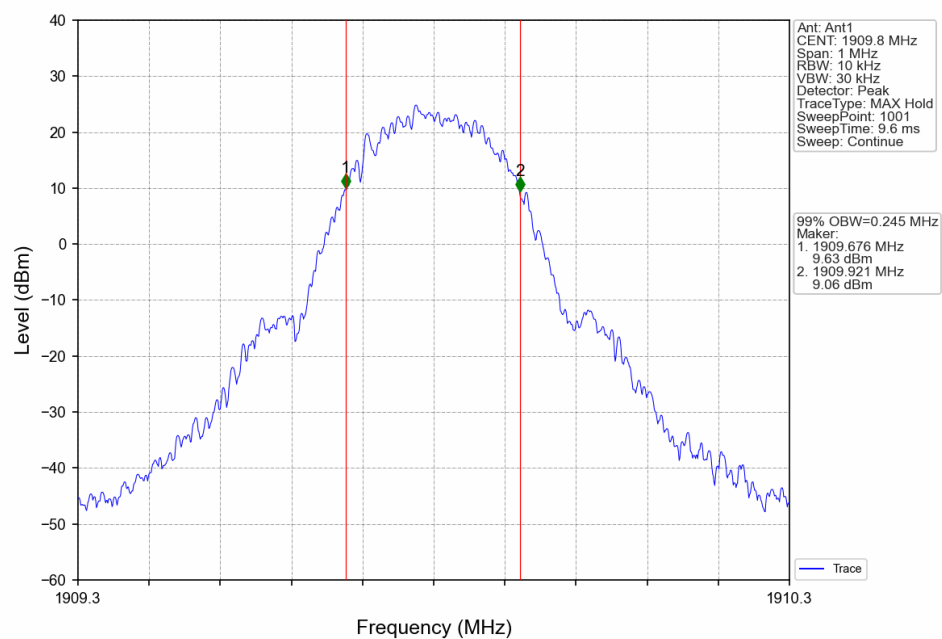
Band: PCS1900					
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.242	Pass
			1880	0.247	Pass
			1909.8	0.245	Pass
	GPRS	1 TX Slot	1850.2	0.243	Pass
			1880	0.242	Pass
			1909.8	0.244	Pass
	EGPRS	1 TX Slot	1850.2	0.258	Pass
			1880	0.255	Pass
			1909.8	0.252	Pass

4.1.2 Test Graph

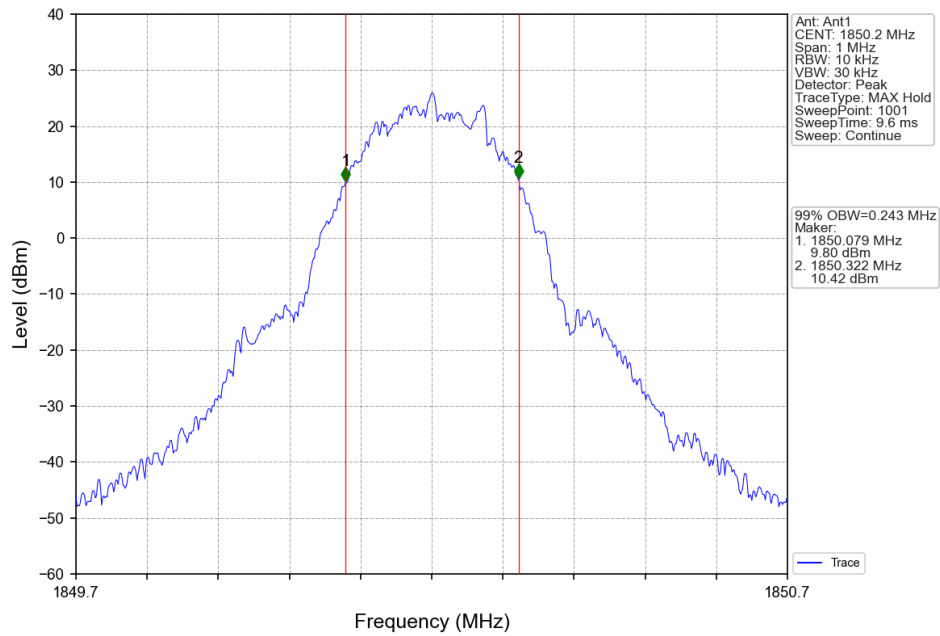




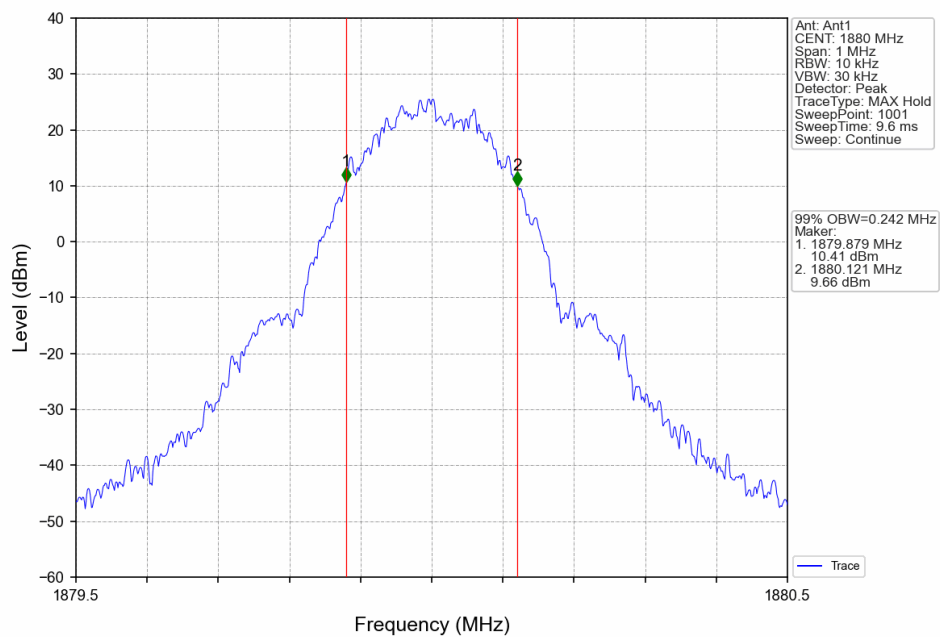
PCS1900 GSM_HCH_1909.8MHz_GSM_NTNV



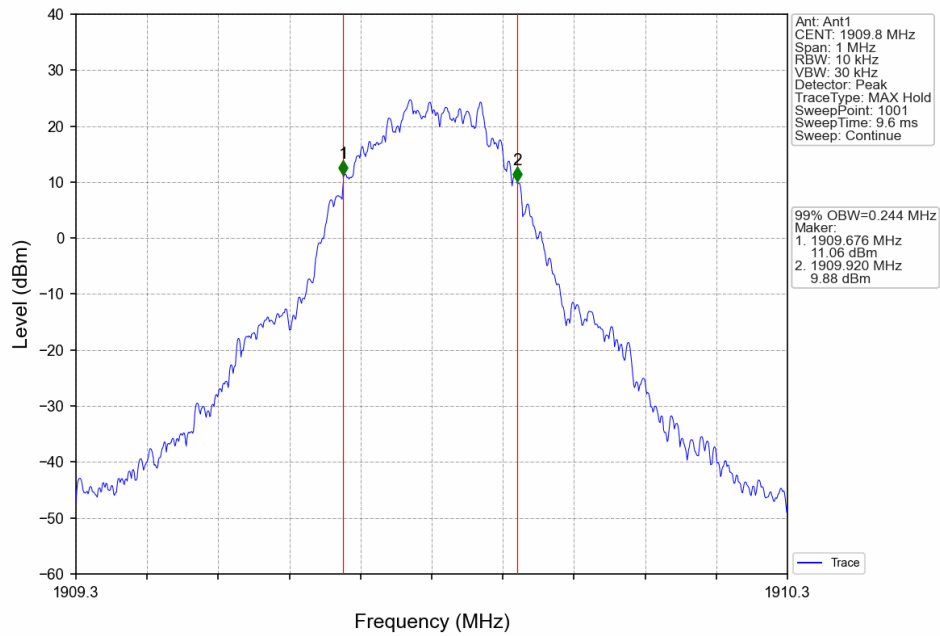
PCS1900 GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



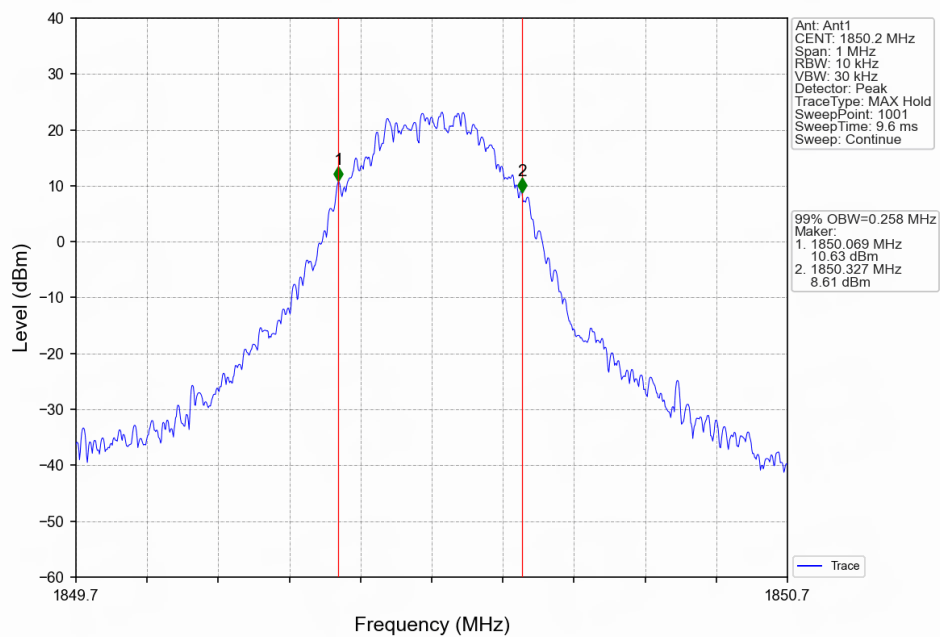
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



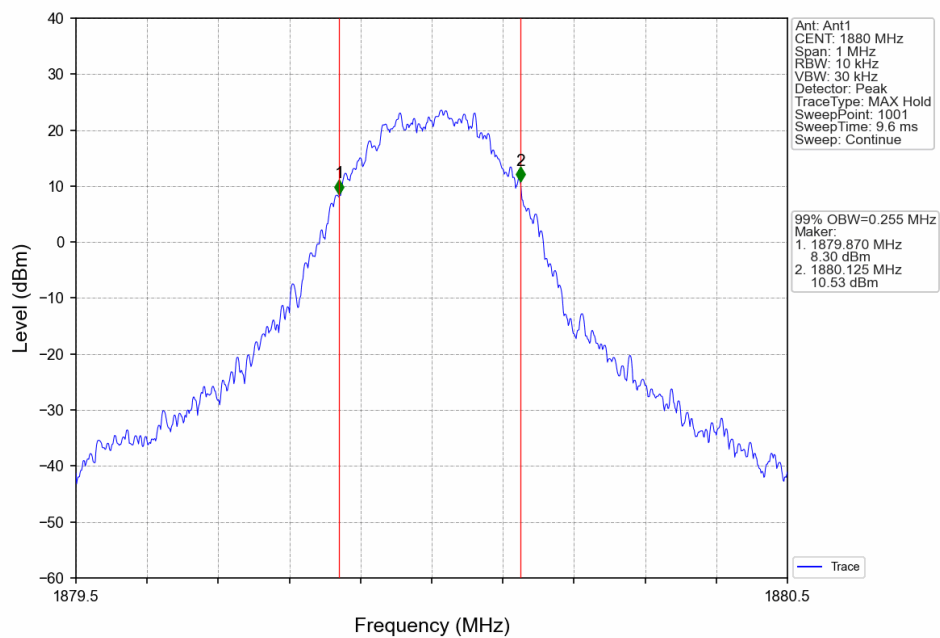
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



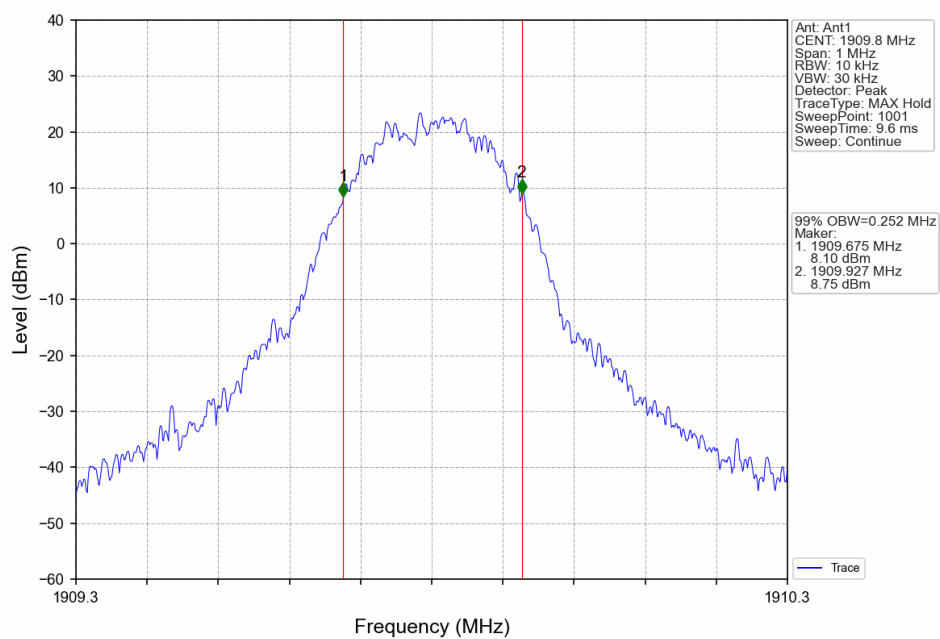
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

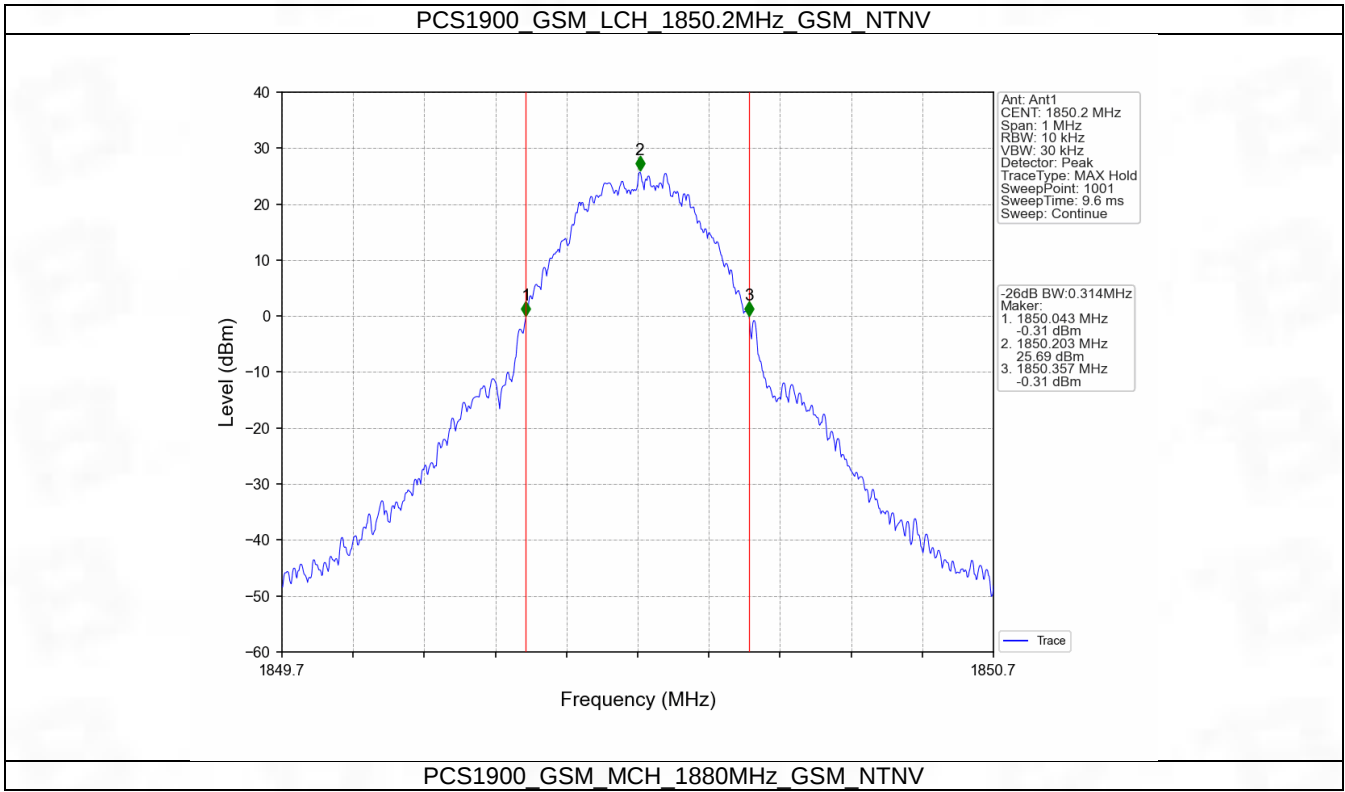


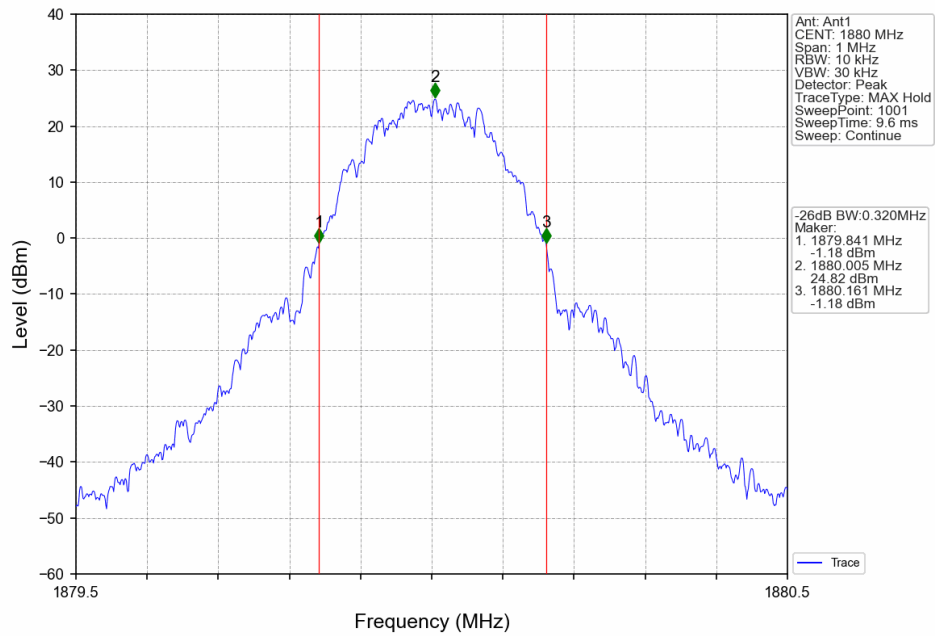
4.2 PCS1900_XDB

4.2.1 Test Result

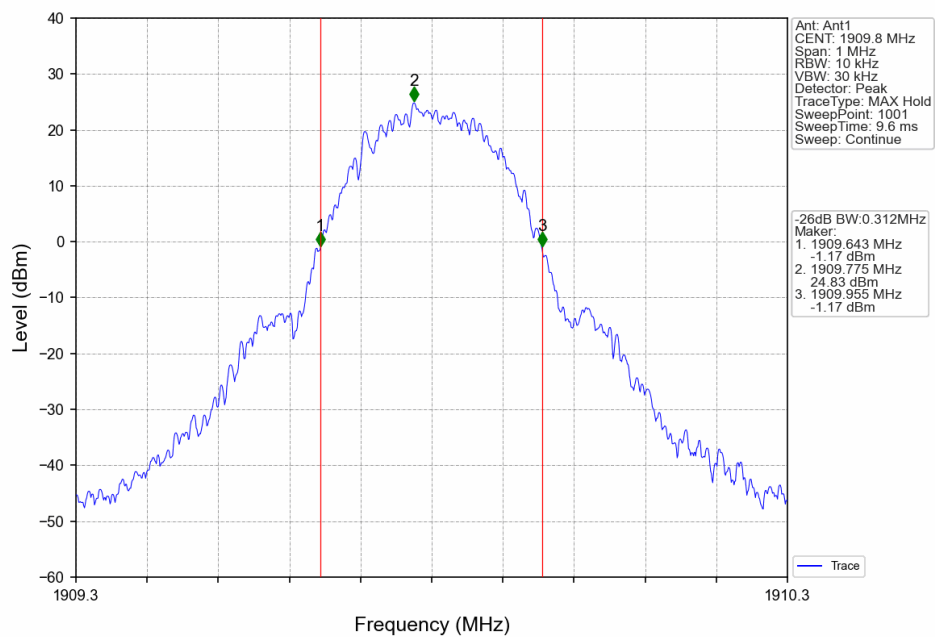
Band: PCS1900					
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)	Verdict
	Network	Subset		Result	
NTNV	GSM	GSM	1850.2	0.314	Pass
			1880	0.320	Pass
			1909.8	0.312	Pass
	GPRS	1 TX Slot	1850.2	0.318	Pass
			1880	0.316	Pass
			1909.8	0.317	Pass
	EGPRS	1 TX Slot	1850.2	0.321	Pass
			1880	0.331	Pass
			1909.8	0.324	Pass

4.2.2 Test Graph

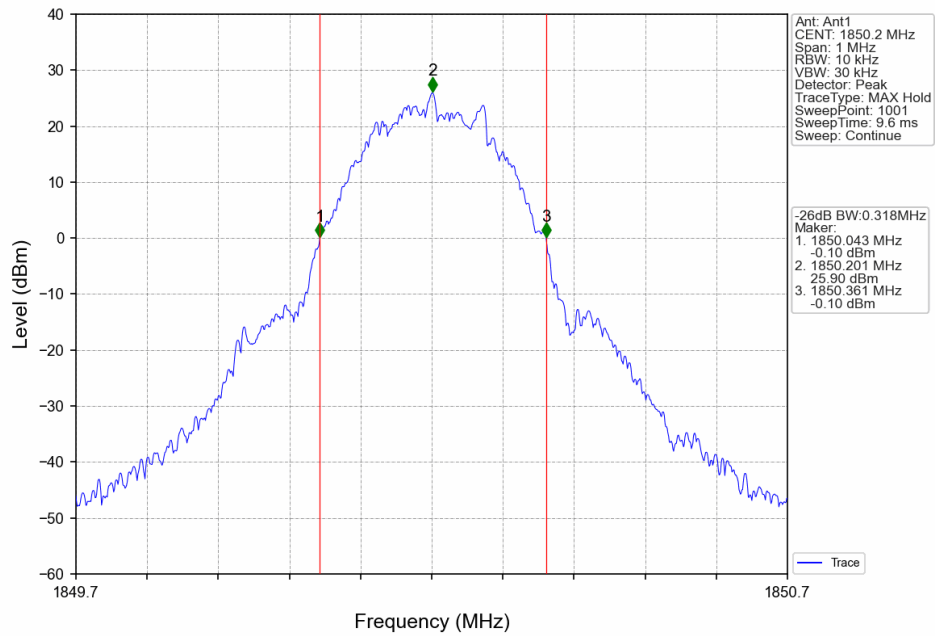




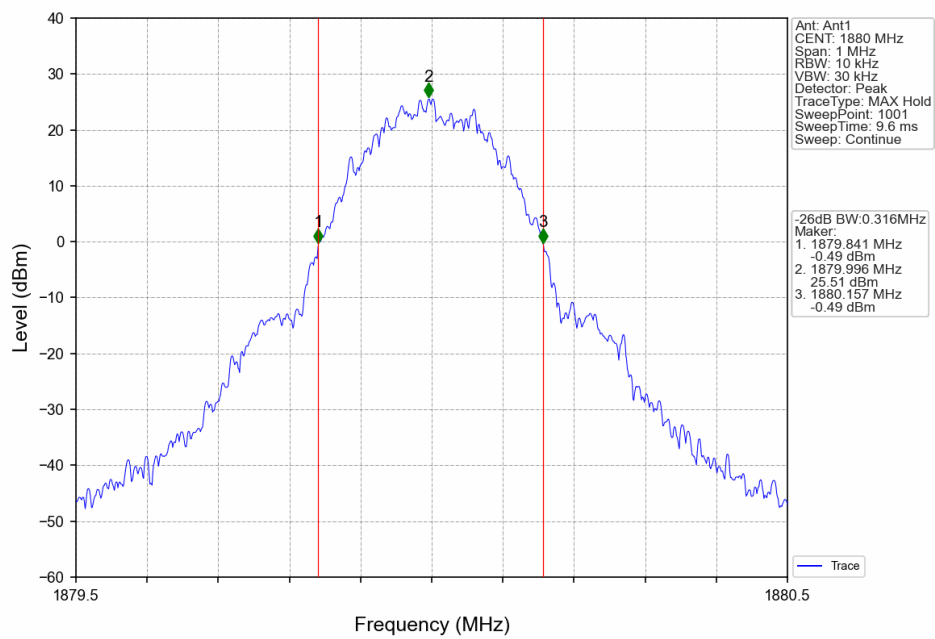
PCS1900 GSM_HCH_1909.8MHz_GSM_NTNV



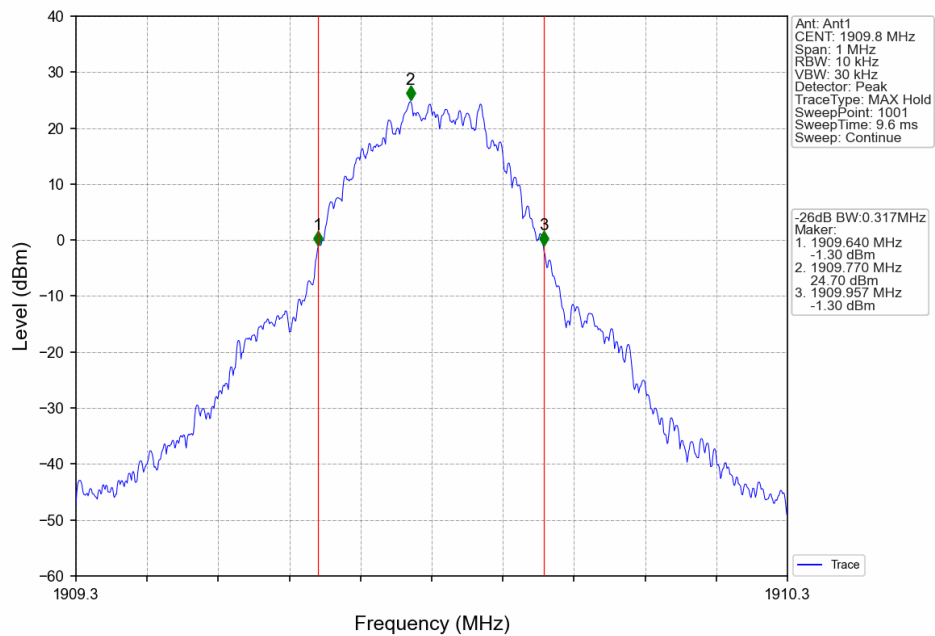
PCS1900 GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



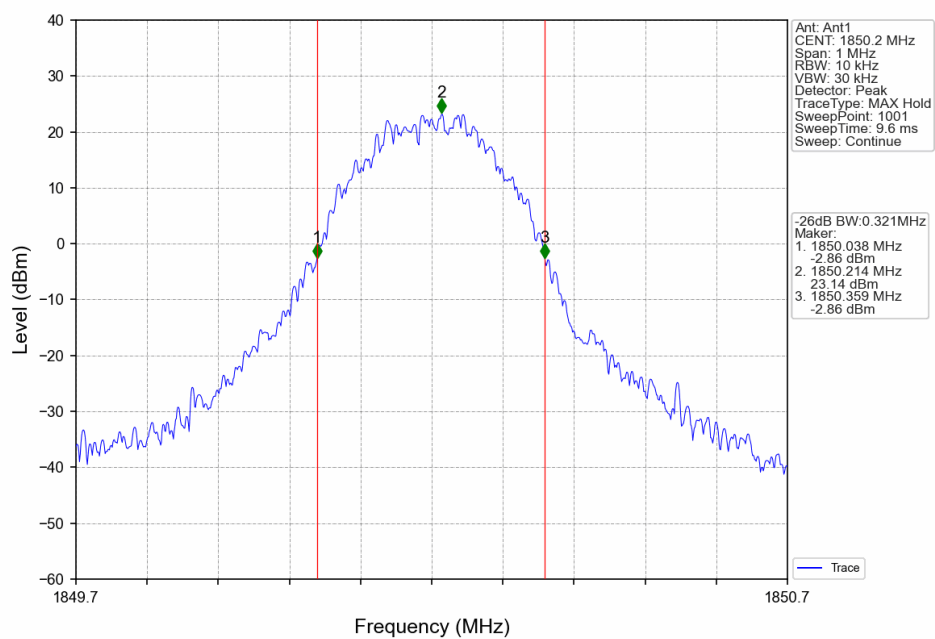
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



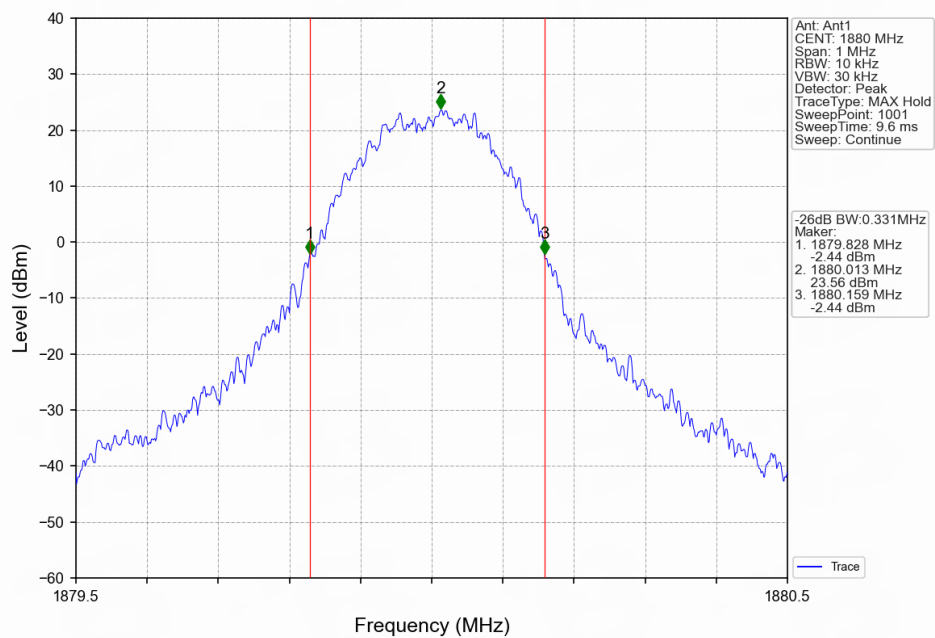
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



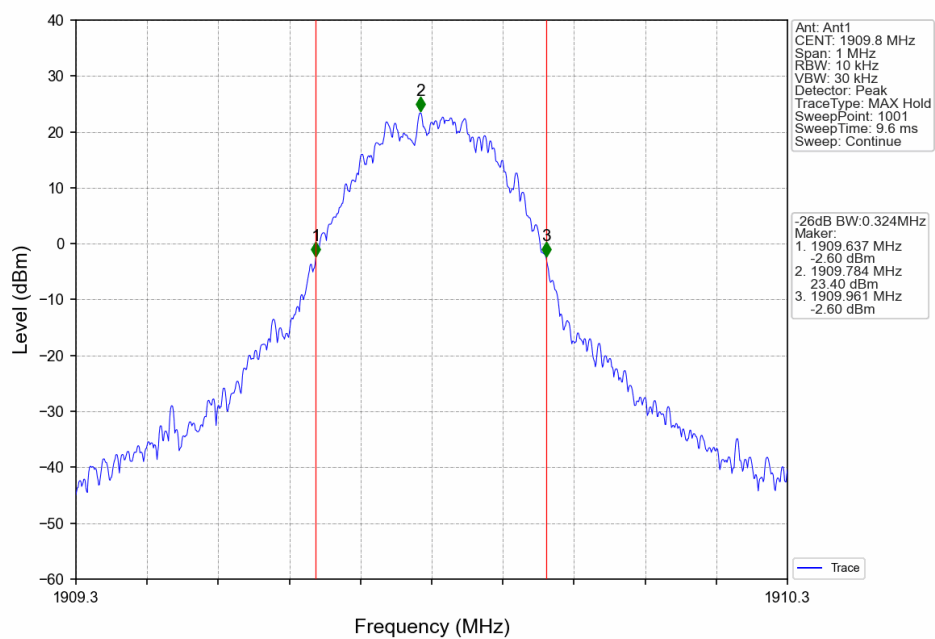
PCS1900 EGPRS LCH 1850.2MHz 1 TX Slot NTN



PCS1900 EGPRS MCH 1880MHz 1 TX Slot NTN



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



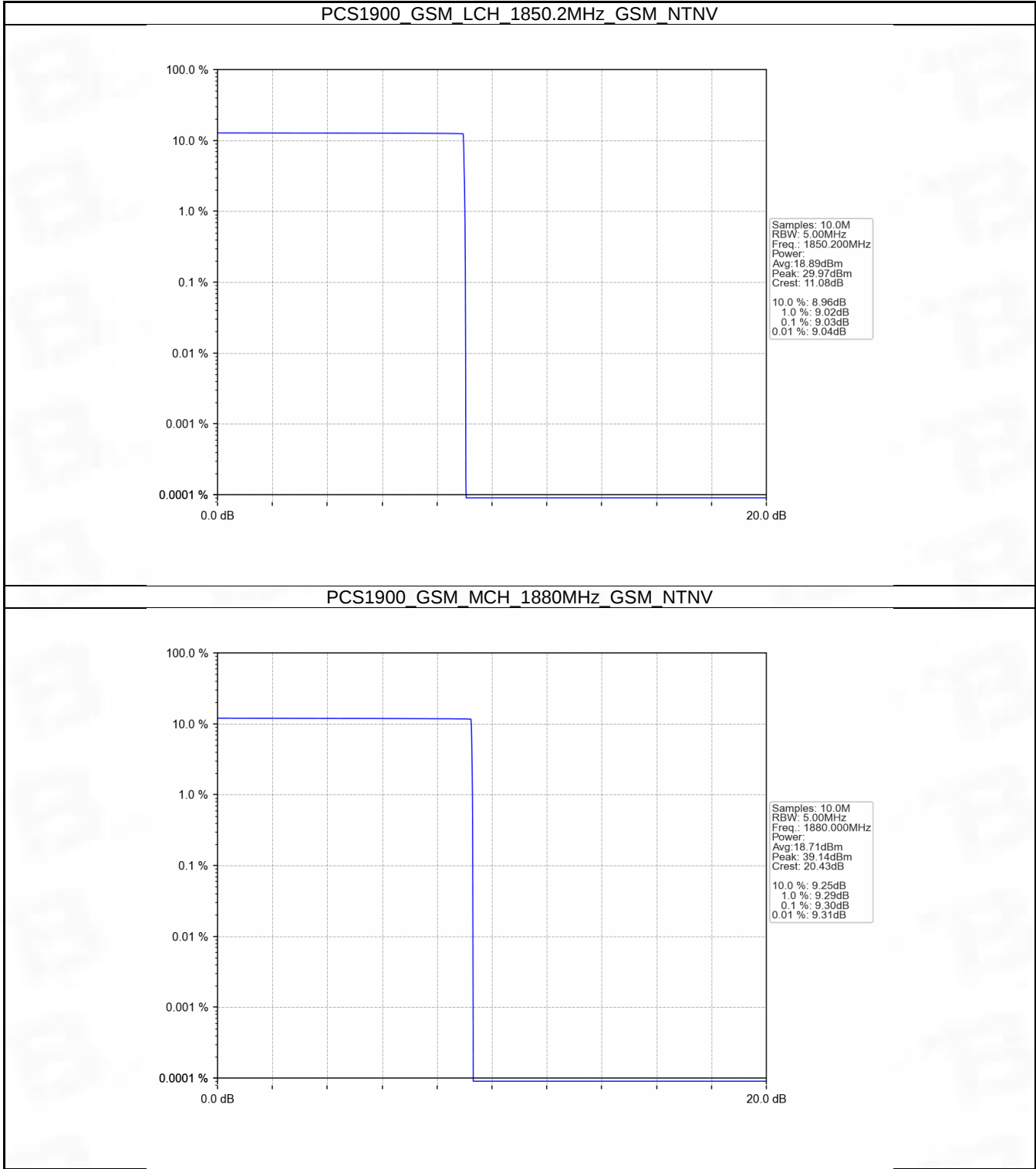
5. Peak-Average Ratio

5.1 PCS1900

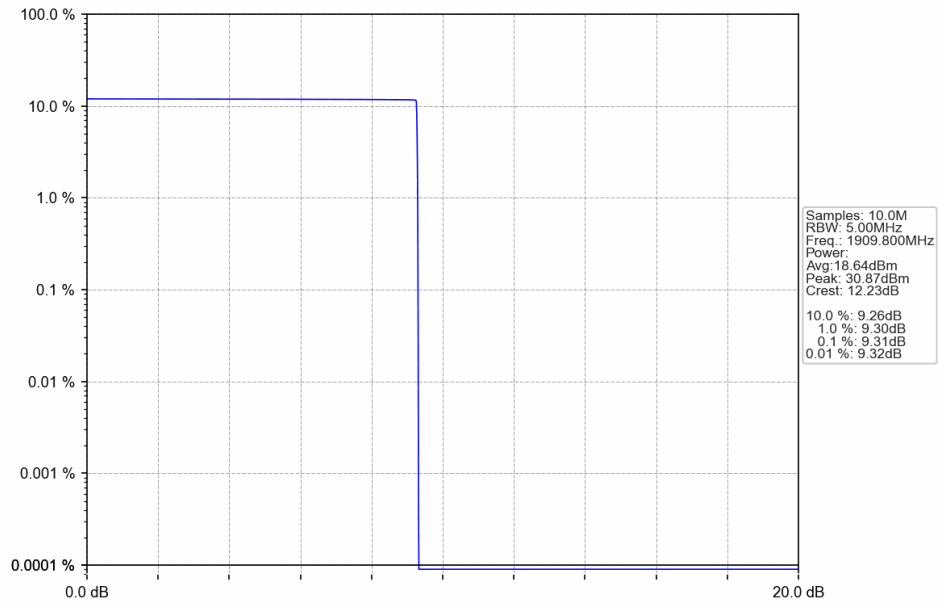
5.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.03	<=13	Pass
			1880	9.30	<=13	Pass
			1909.8	9.31	<=13	Pass
	GPRS	4 TX Slots	1850.2	9.80	<=13	Pass
			1880	3.81	<=13	Pass
			1909.8	3.60	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.41	<=13	Pass
			1880	8.74	<=13	Pass
			1909.8	9.52	<=13	Pass

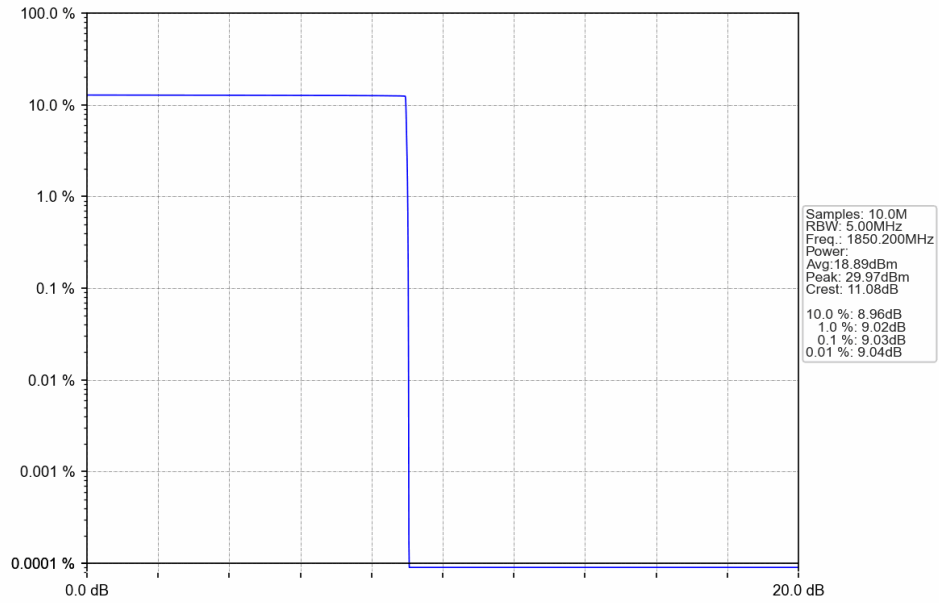
5.1.2 Test Graph



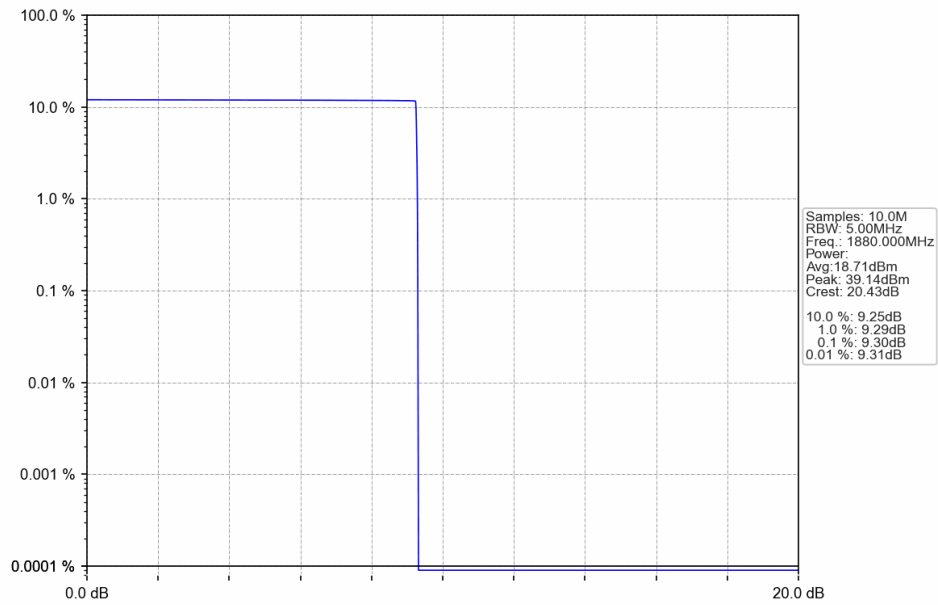
PCS1900 GSM HCH 1909.8MHz GSM NTN



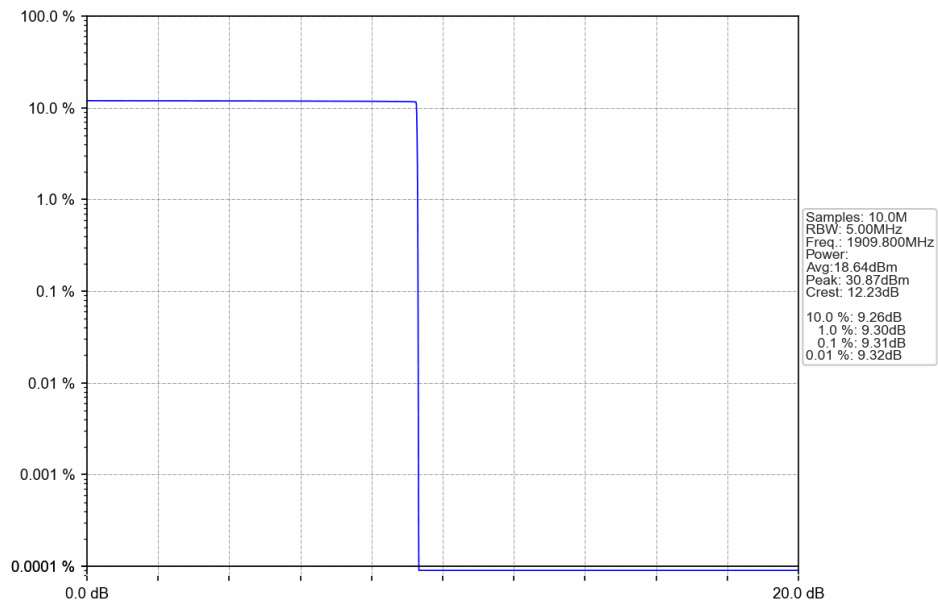
PCS1900 GSM LCH 1850.2MHz GSM NTN



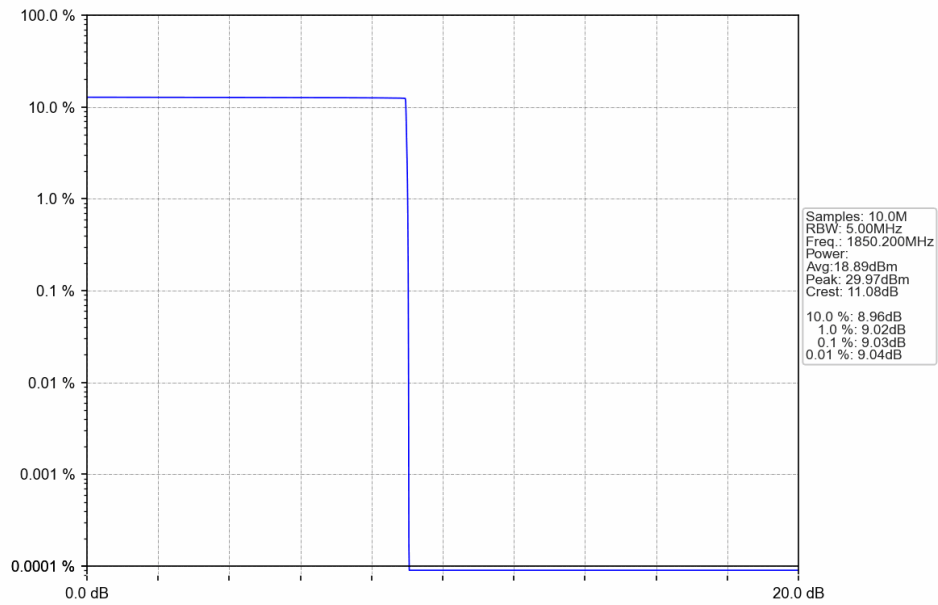
PCS1900 GSM MCH 1880MHz GSM NTN



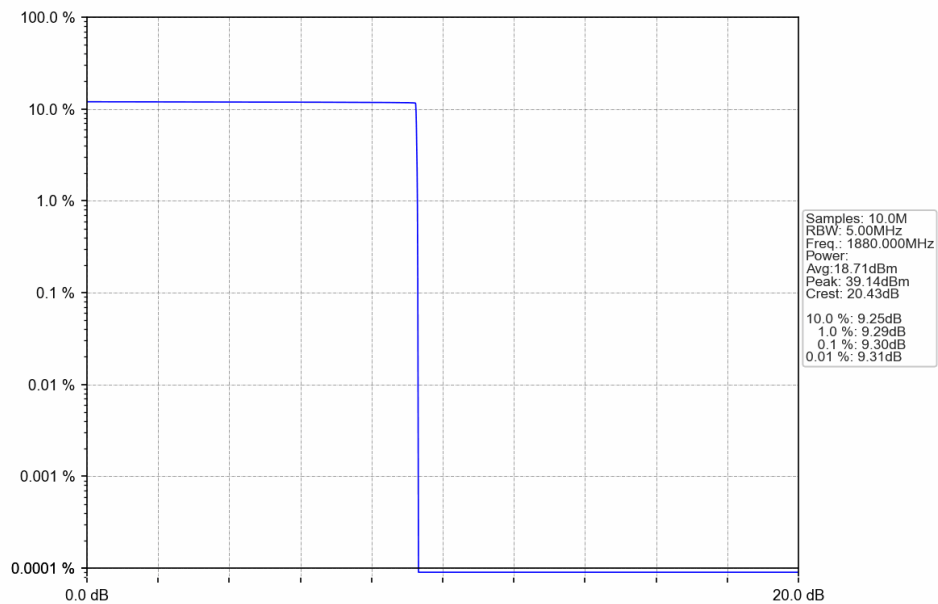
PCS1900 GSM HCH 1909.8MHz GSM NTN



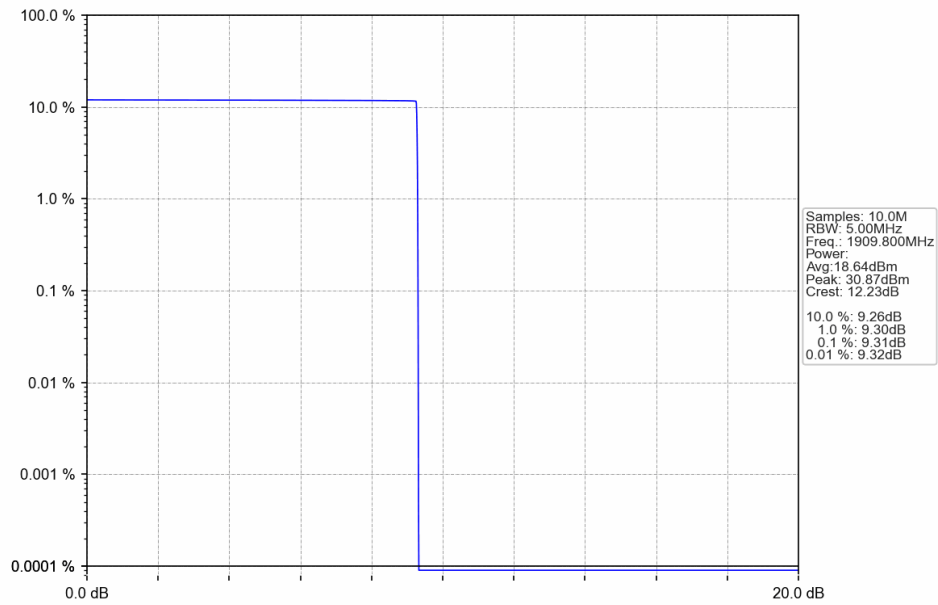
PCS1900 GSM LCH 1850.2MHz GSM NTN



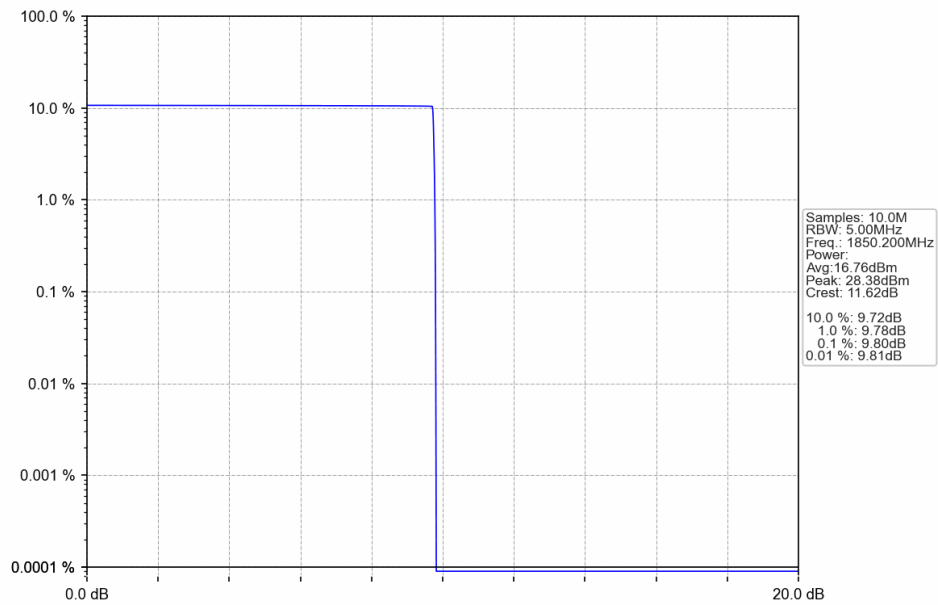
PCS1900 GSM MCH 1880MHz GSM NTN



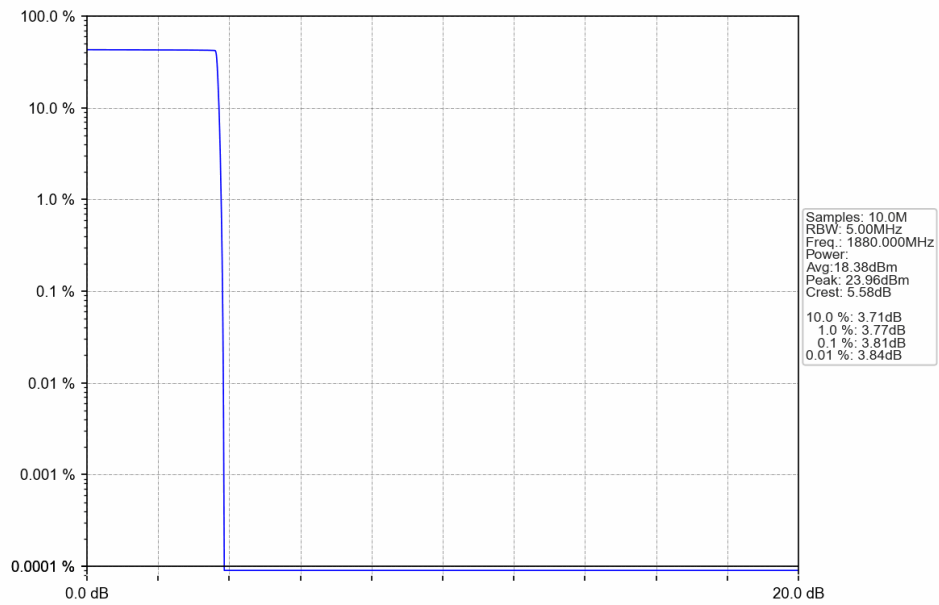
PCS1900 GSM HCH 1909.8MHz GSM NTN



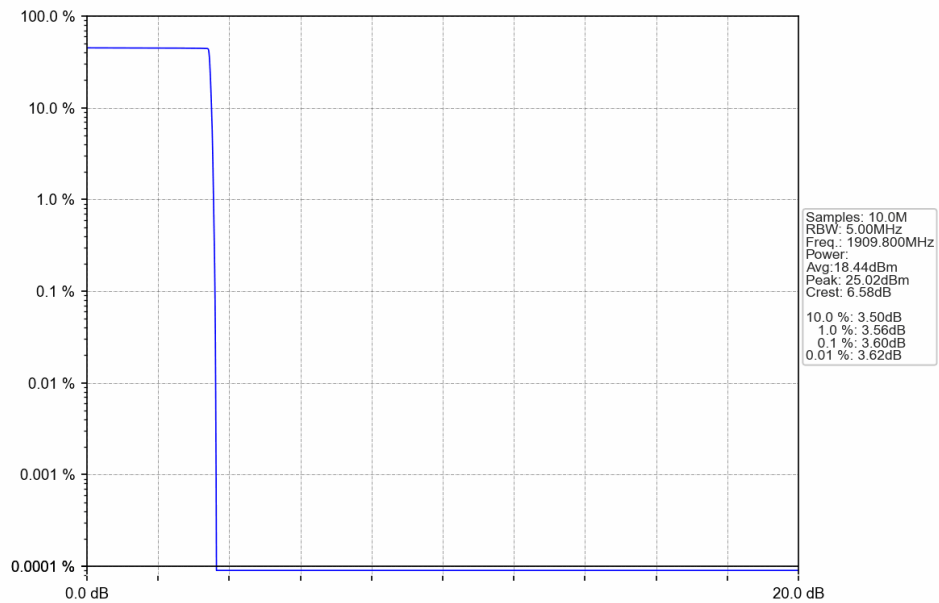
PCS1900 GPRS LCH 1850.2MHz 4 TX Slots NTN



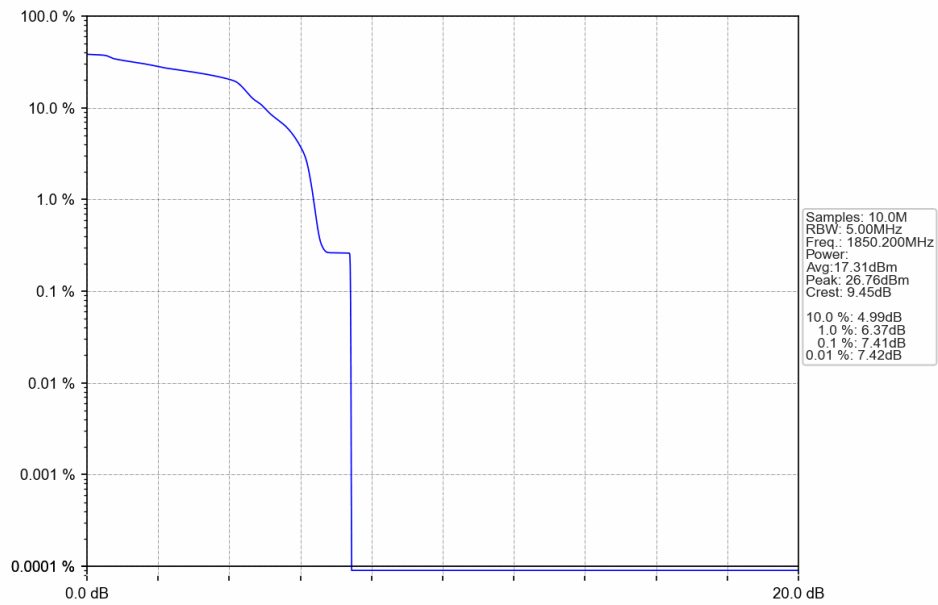
PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



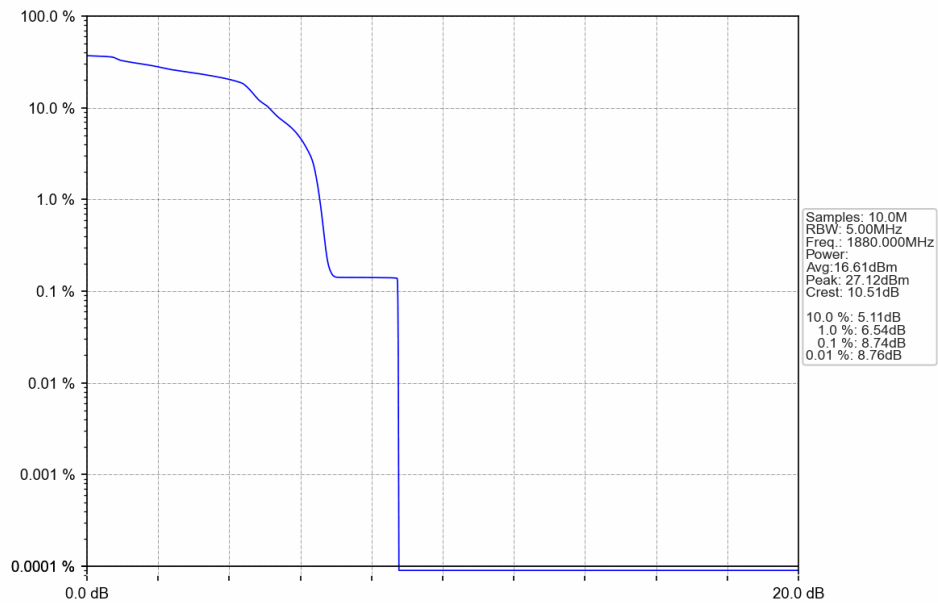
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



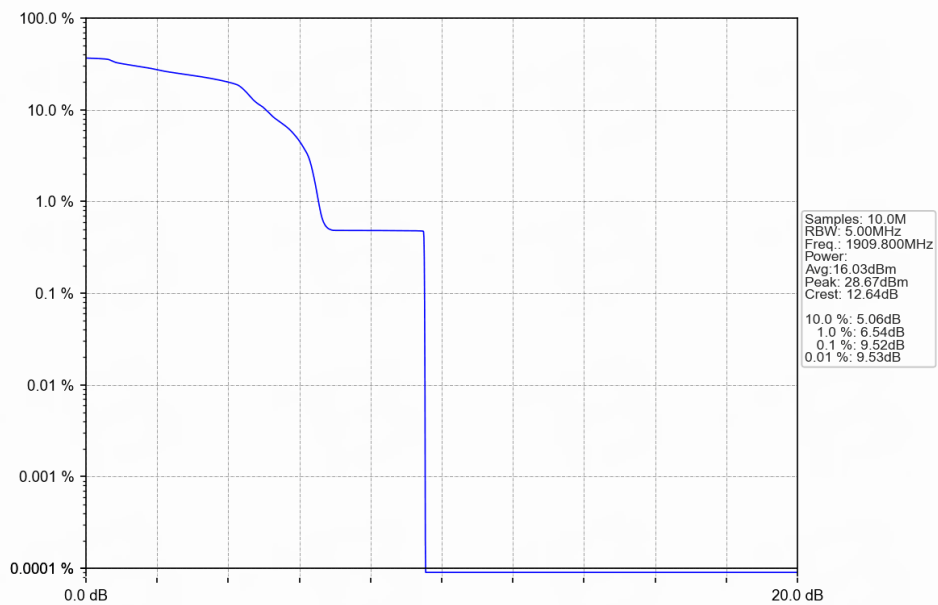
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



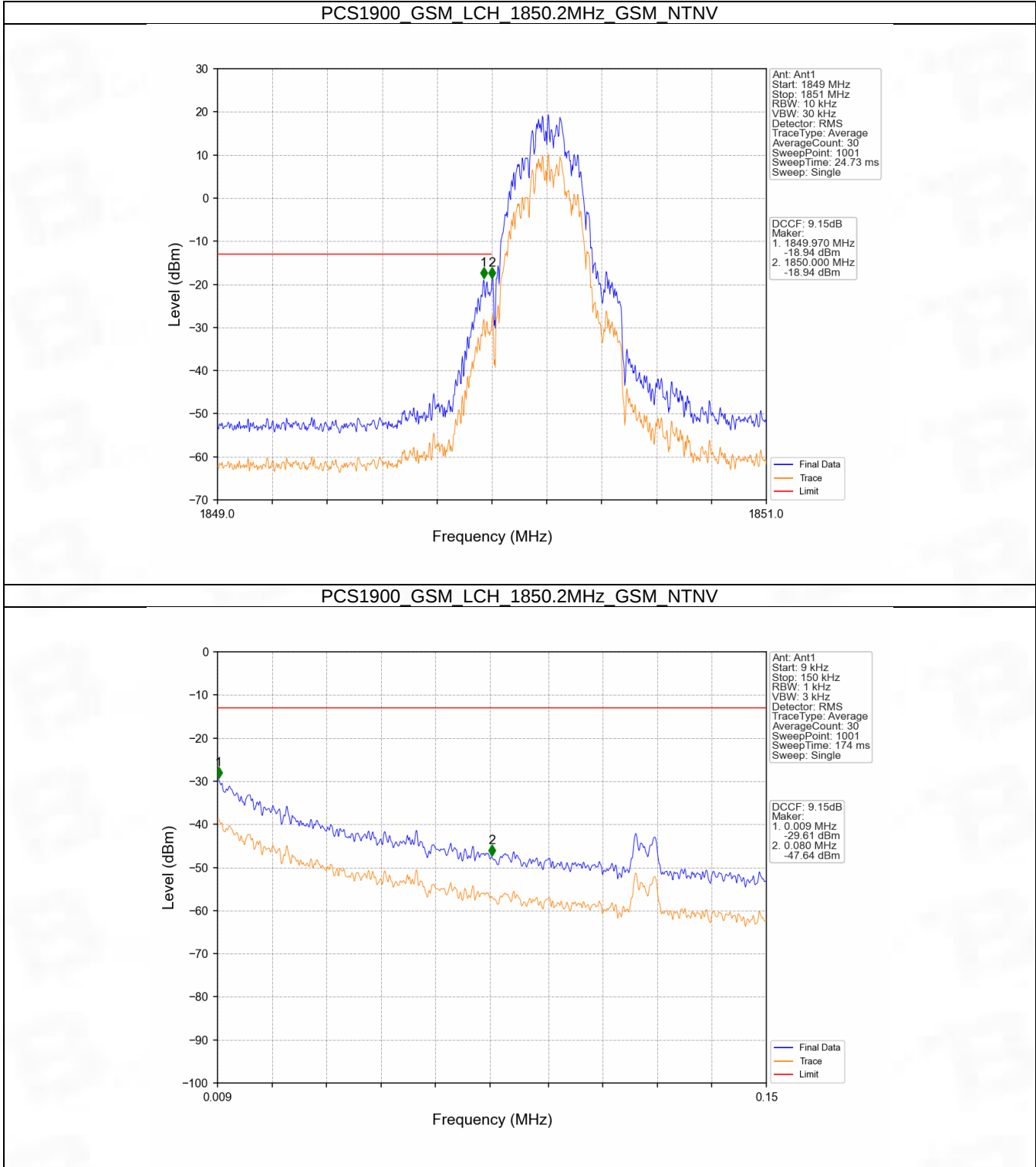
6. Spurious Emission

6.1 PCS1900

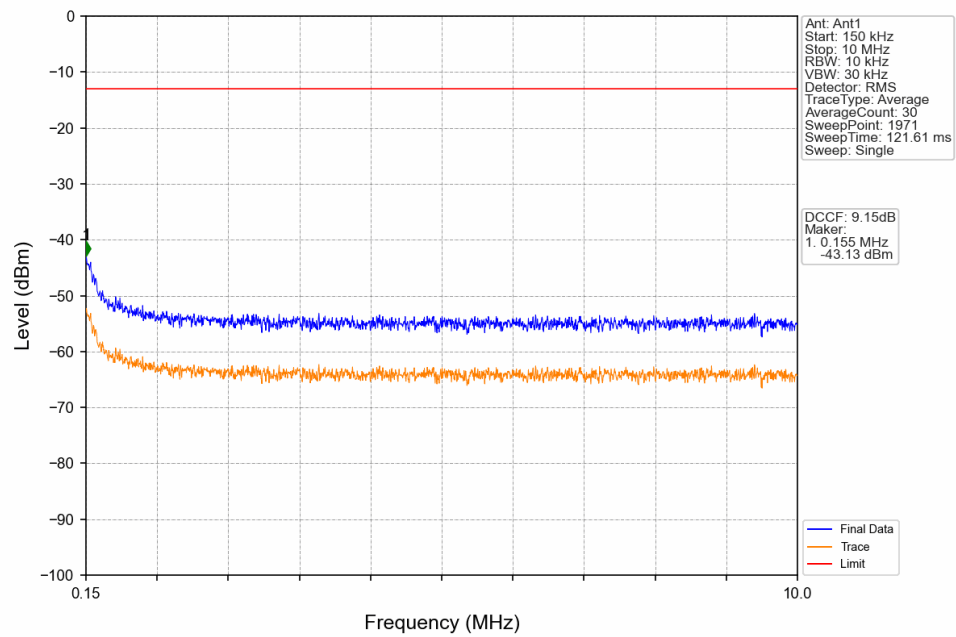
6.1.1 Test Result

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

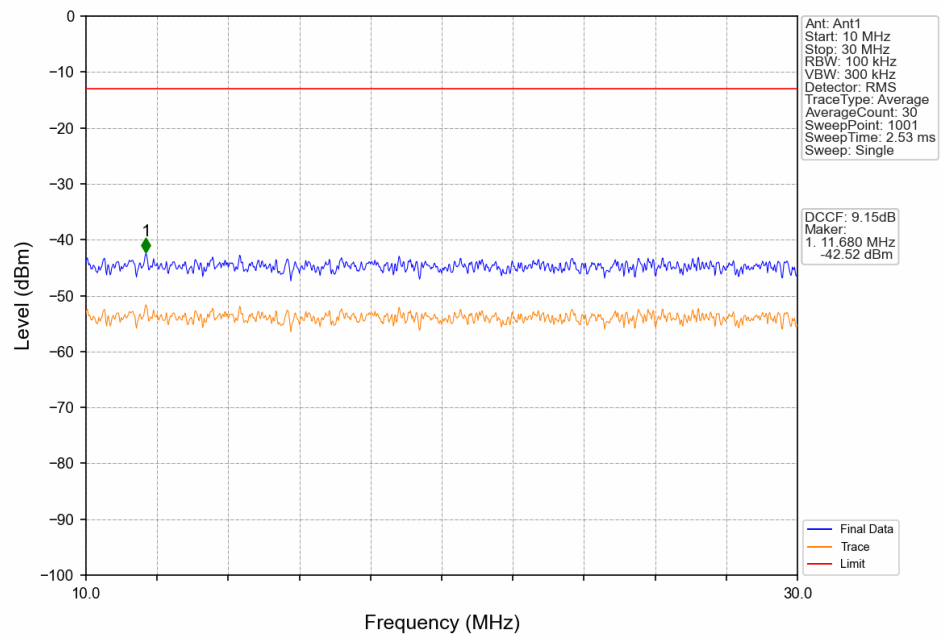
6.1.2 Test Graph



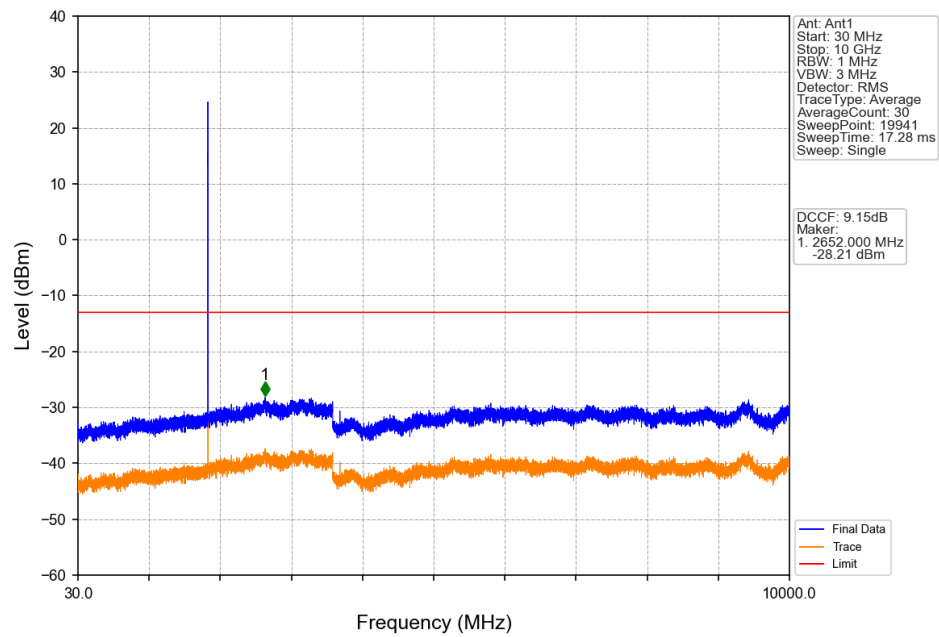
PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV



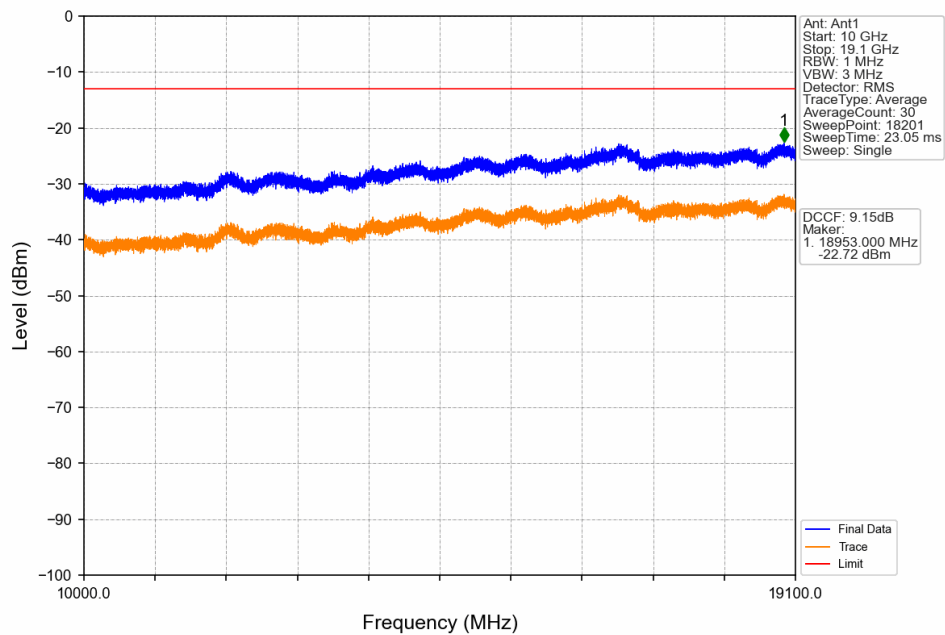
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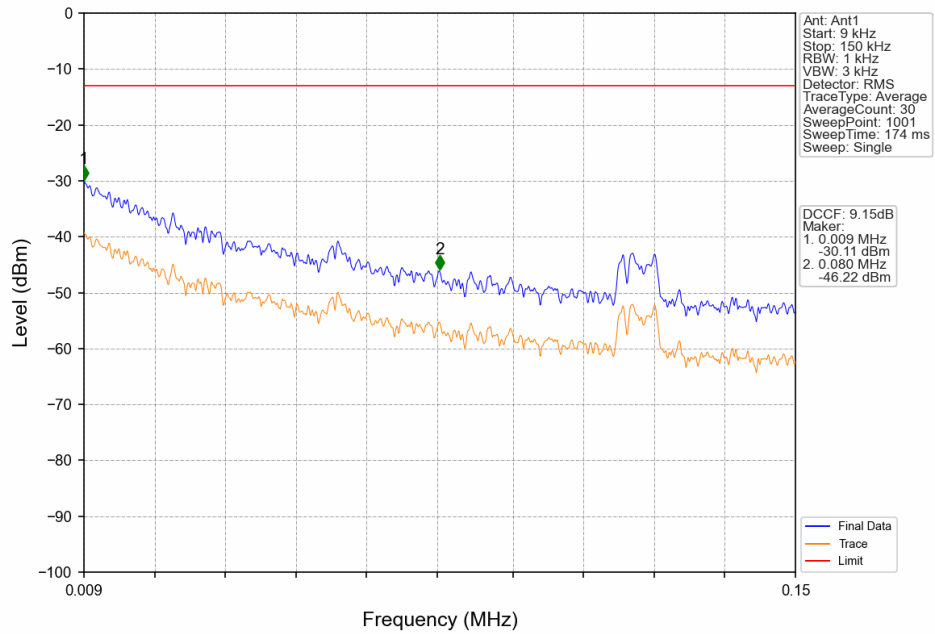
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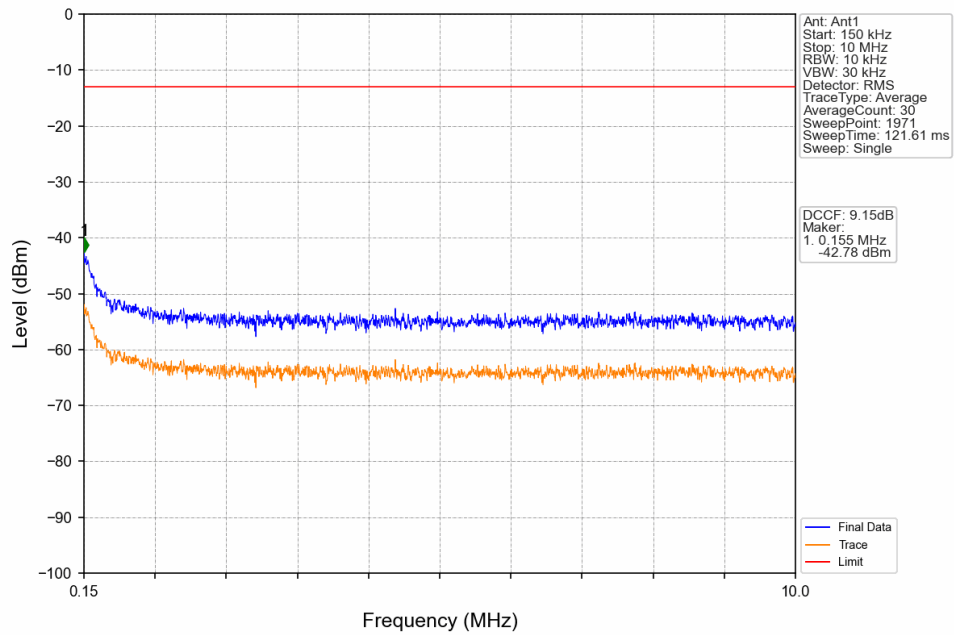
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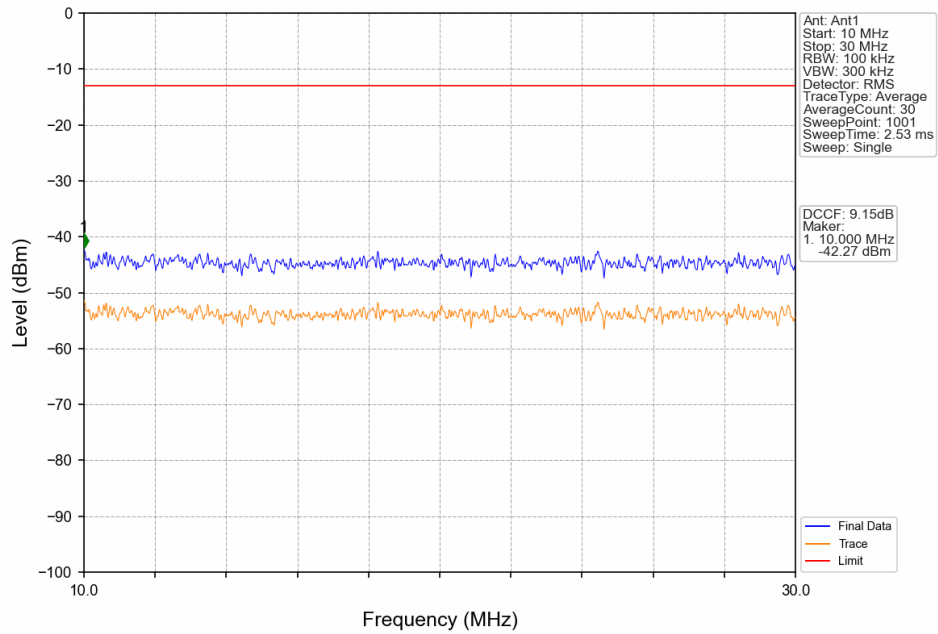
PCS1900_GSM_MCH_1880MHz_GSM_NTNV



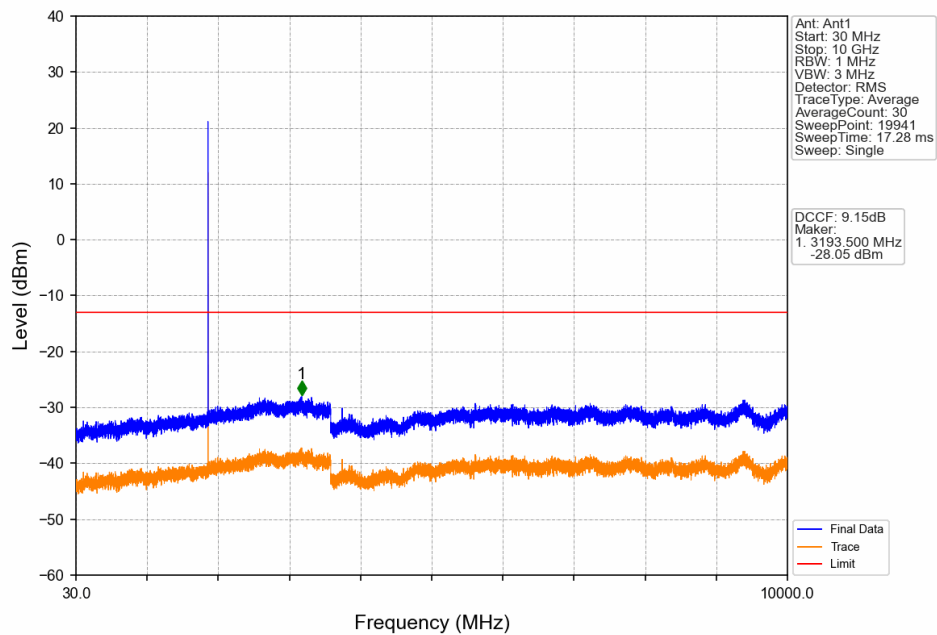
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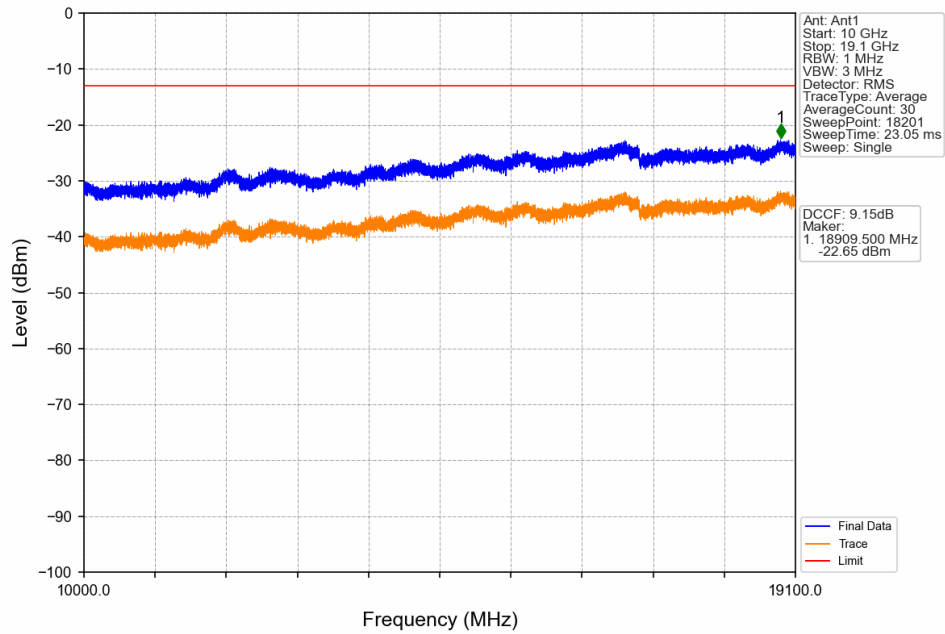
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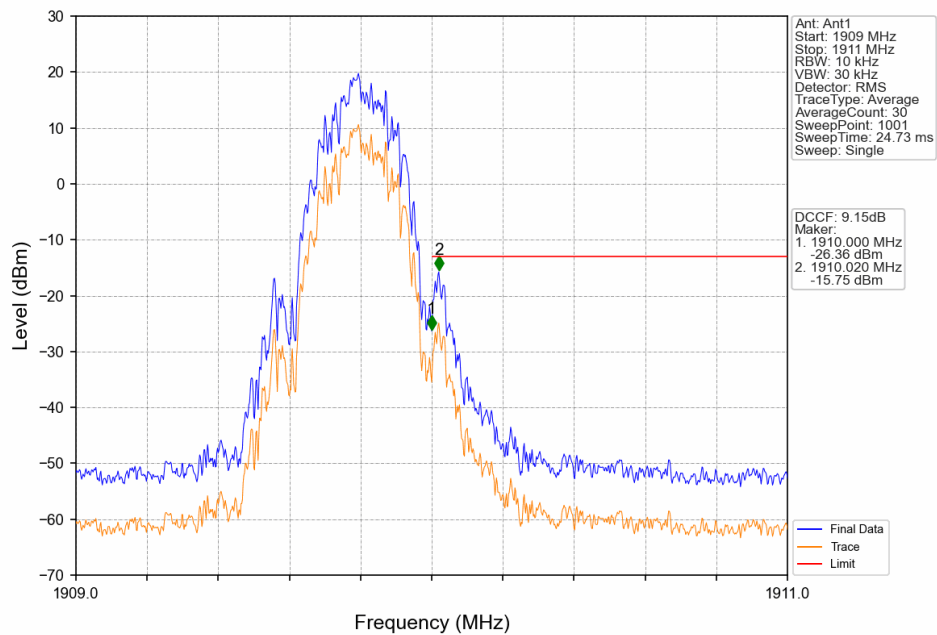
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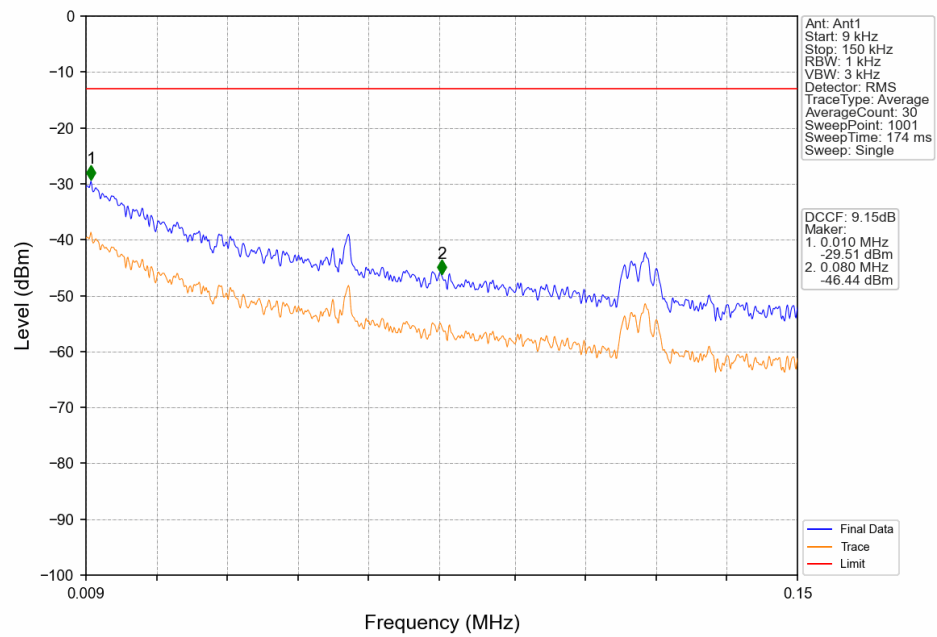
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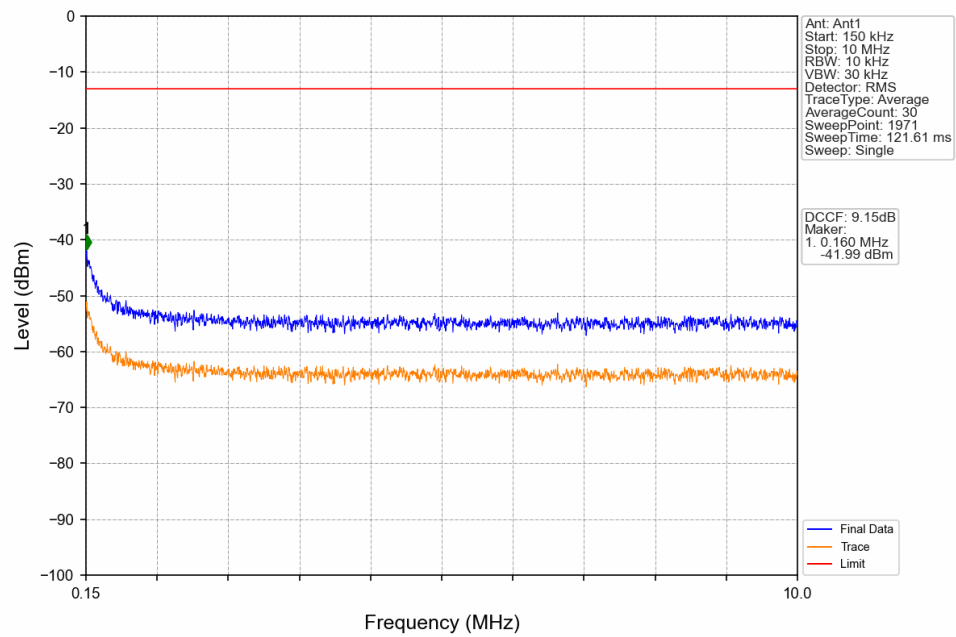
PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



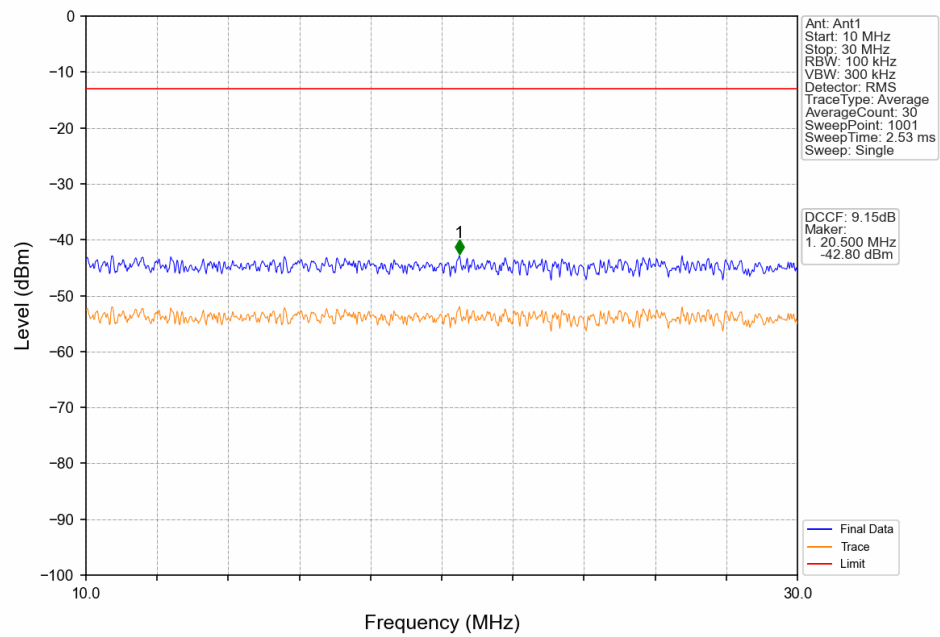
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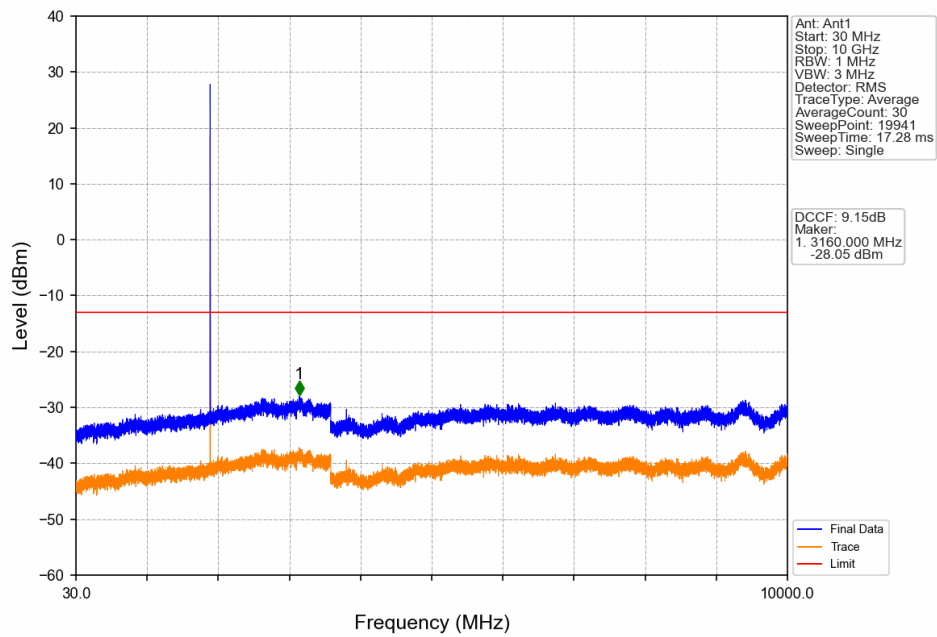
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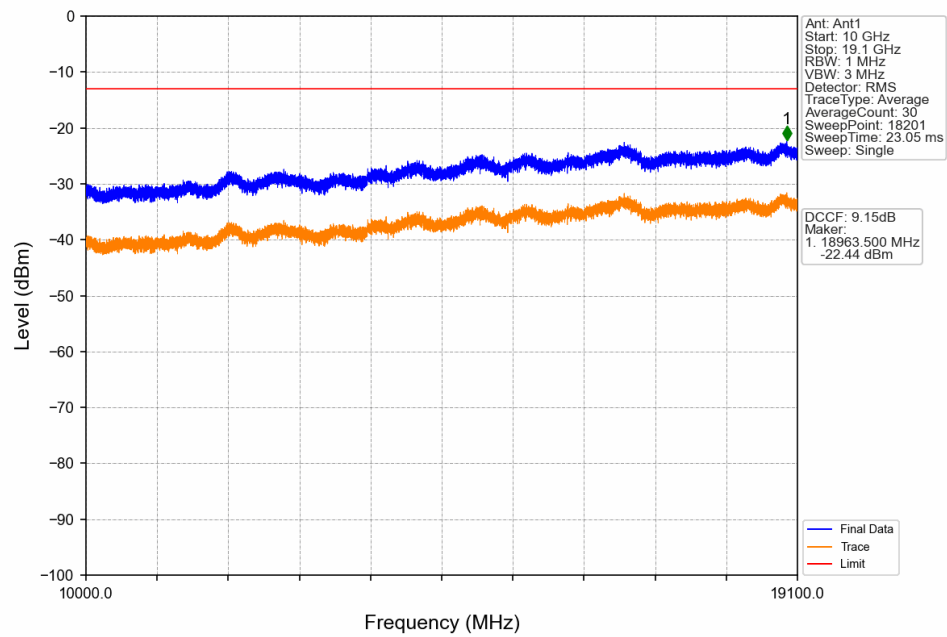
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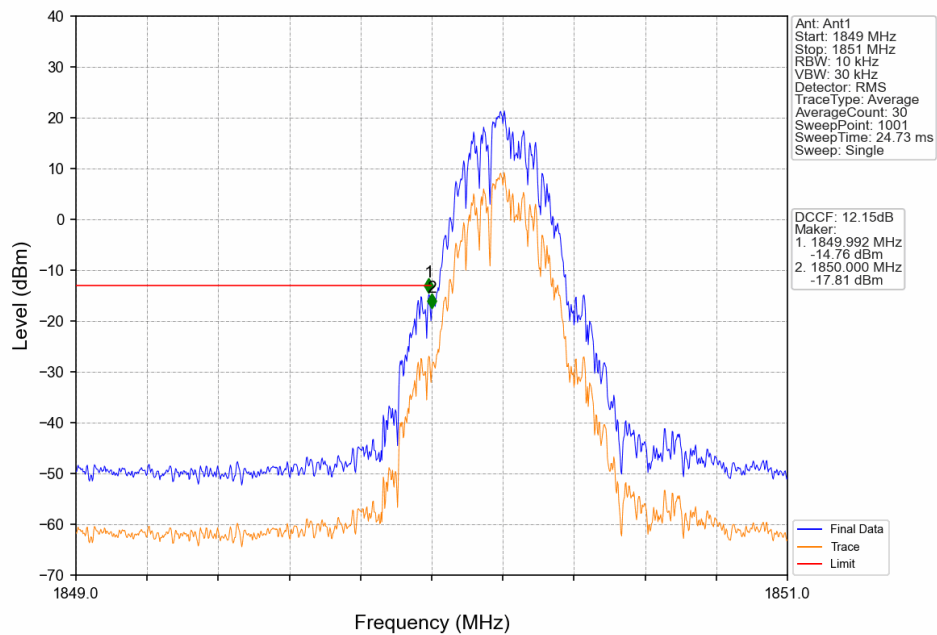
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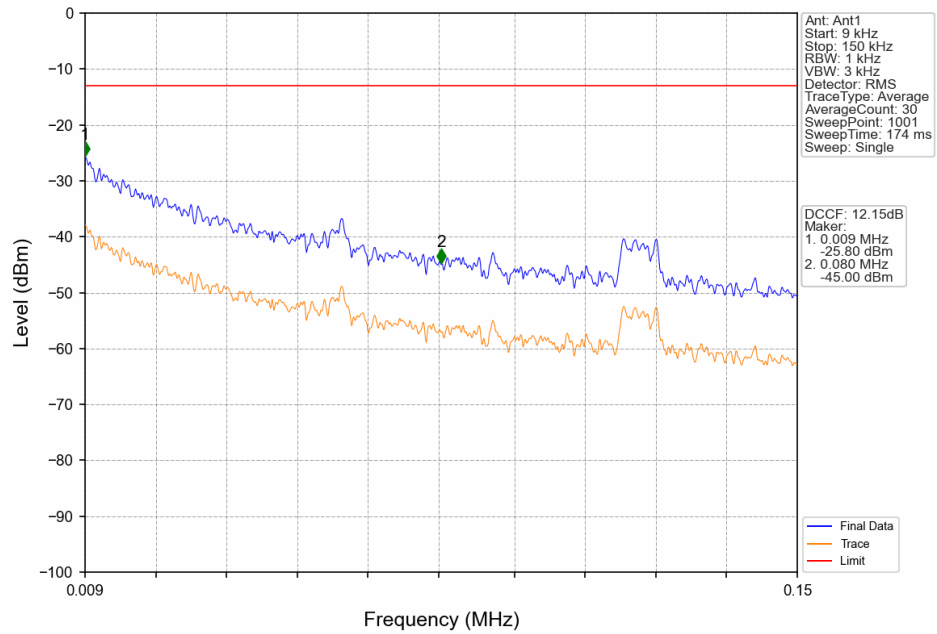
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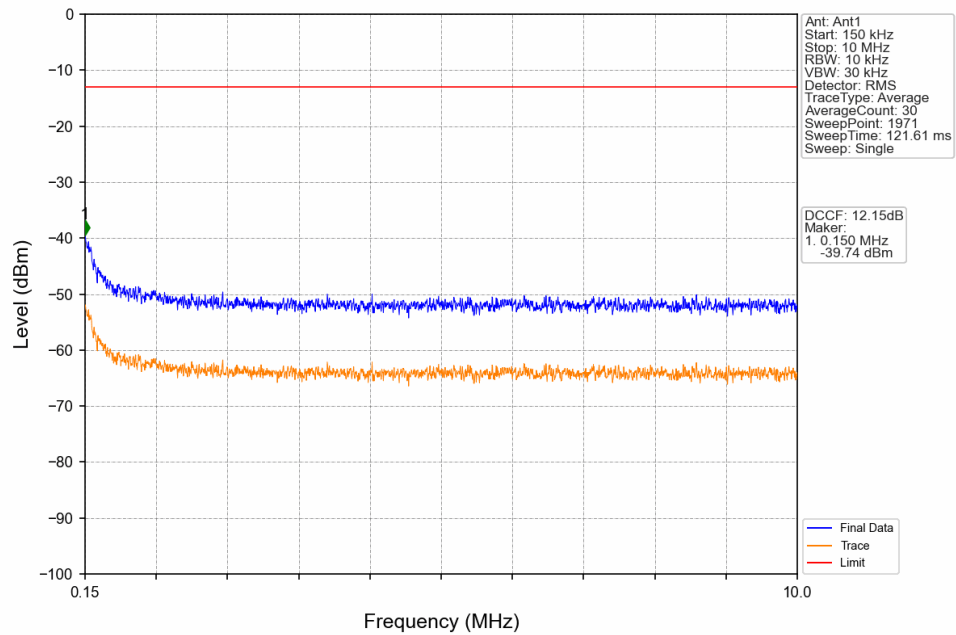
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



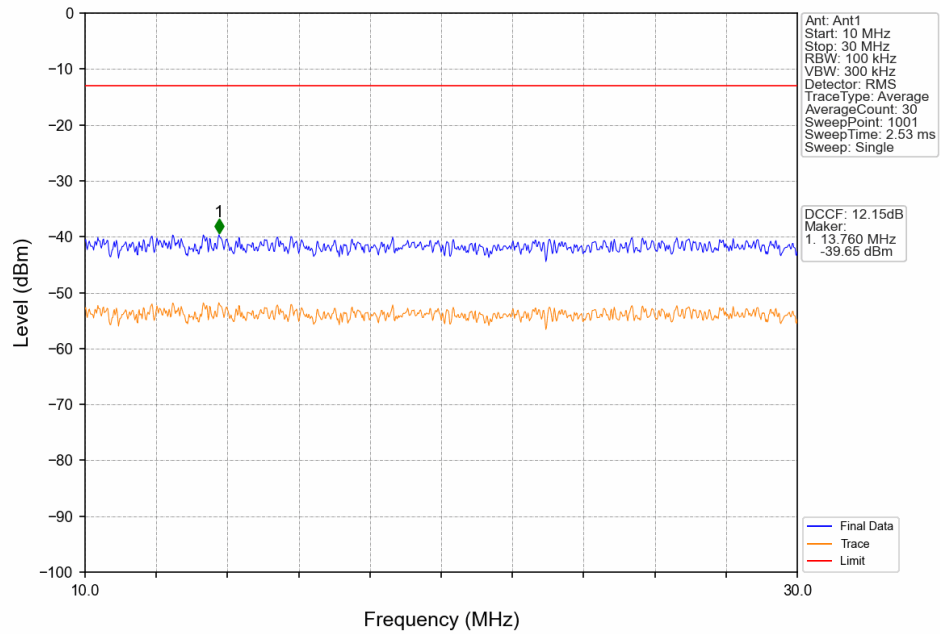
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



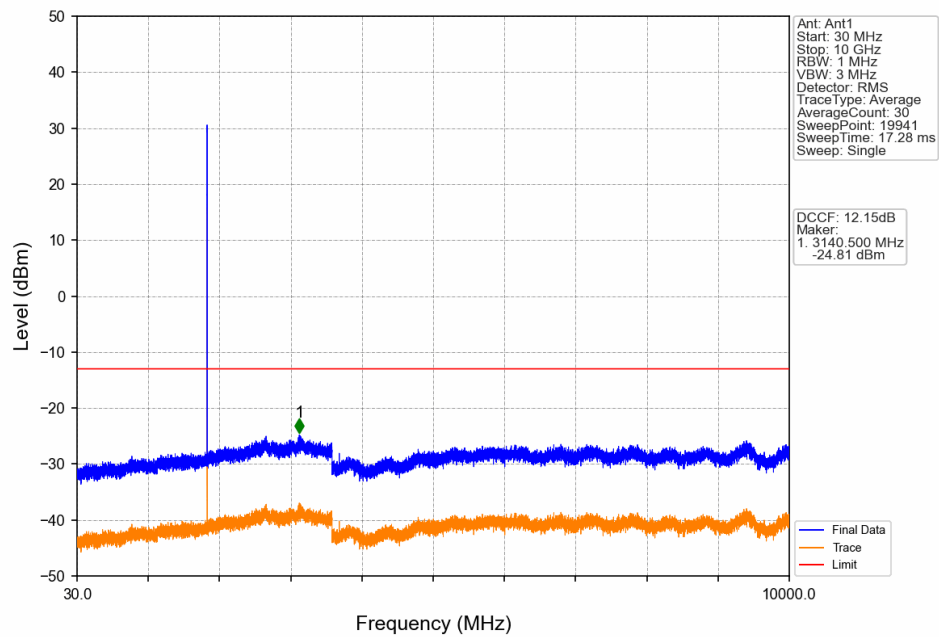
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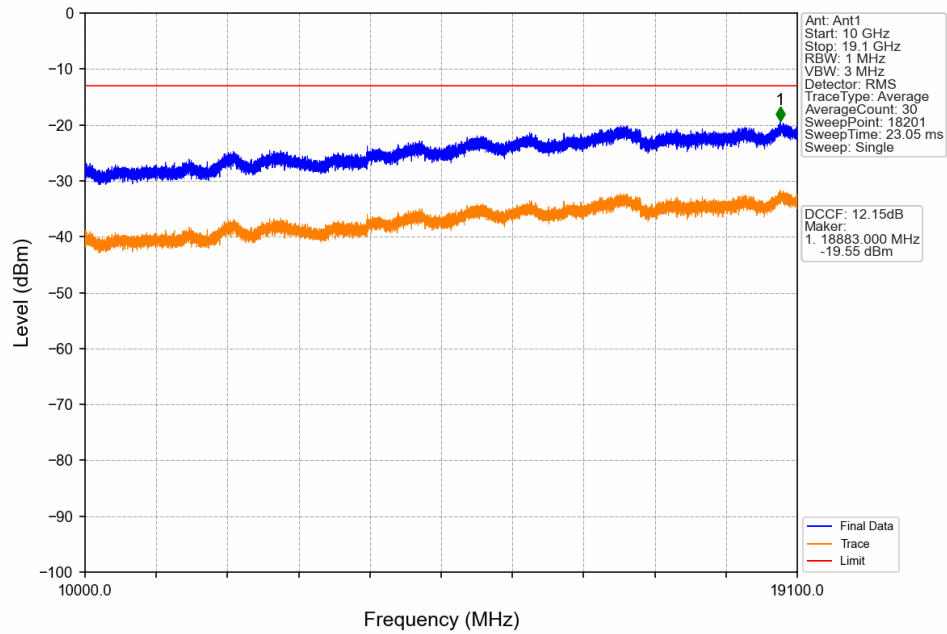
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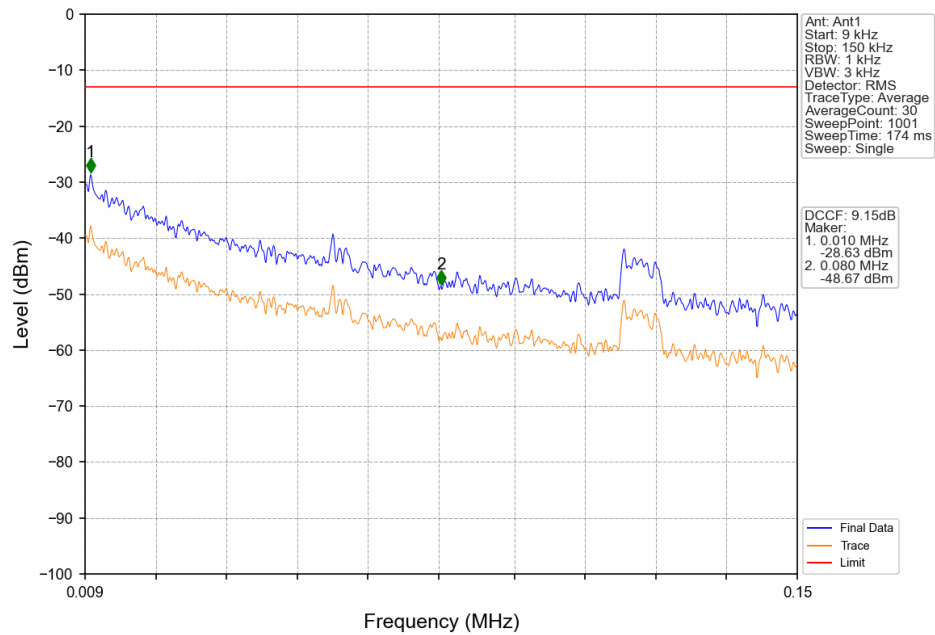
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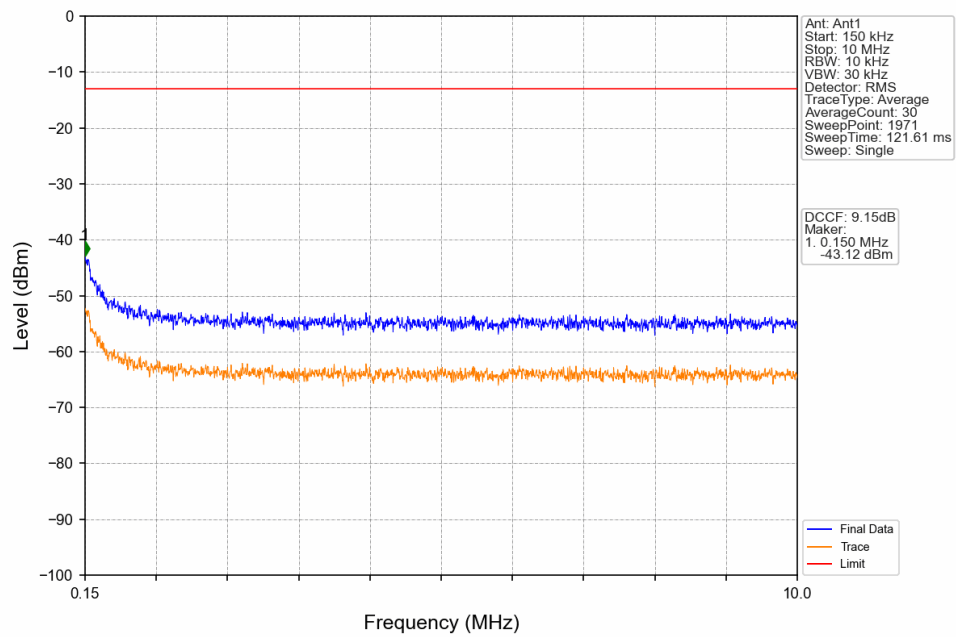
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



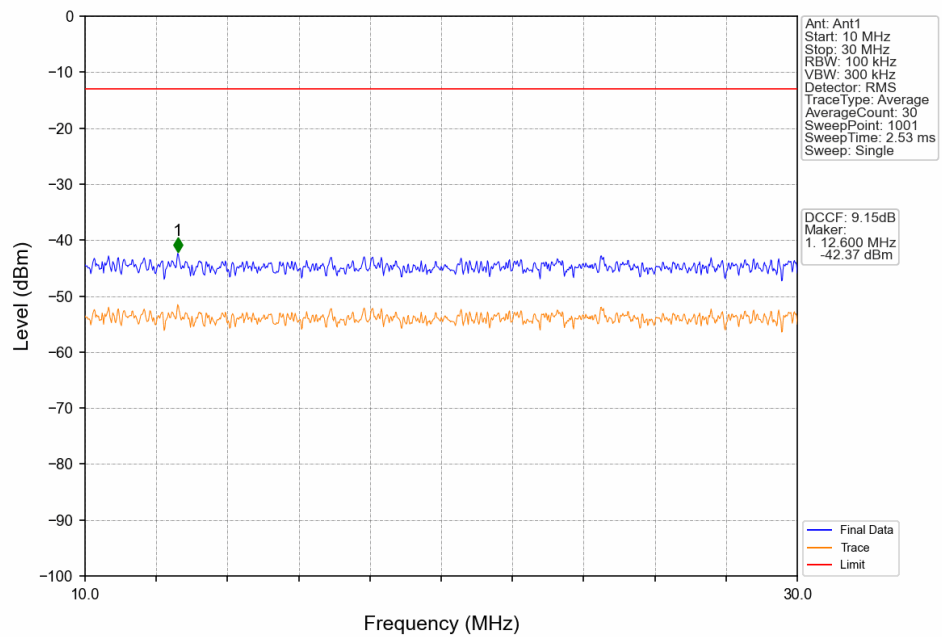
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



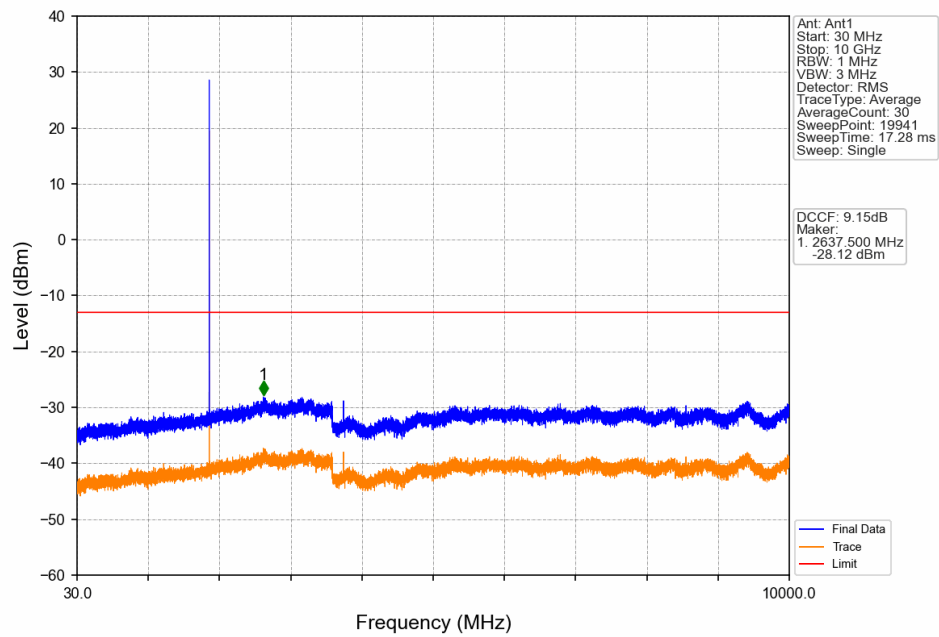
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



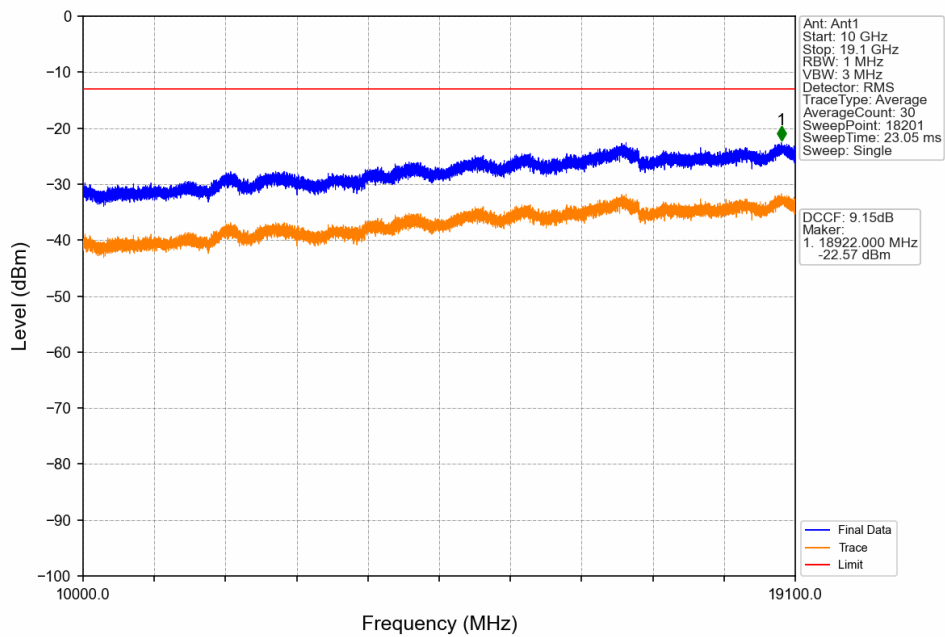
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



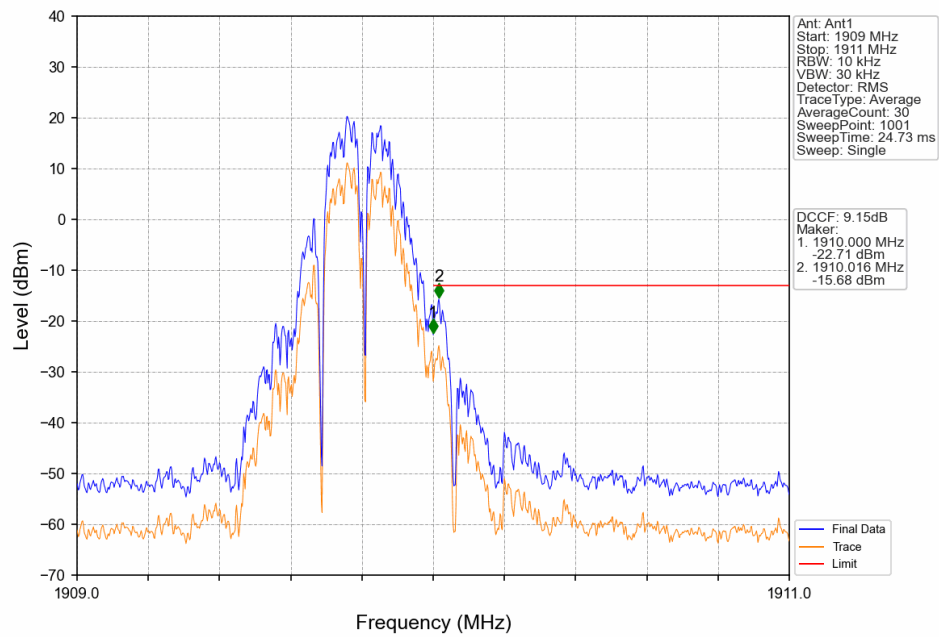
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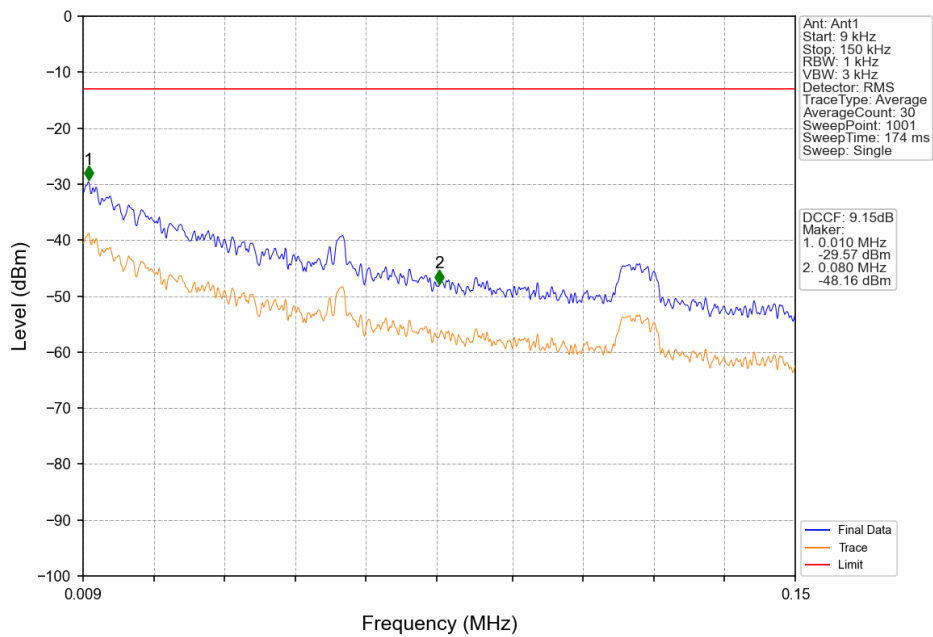
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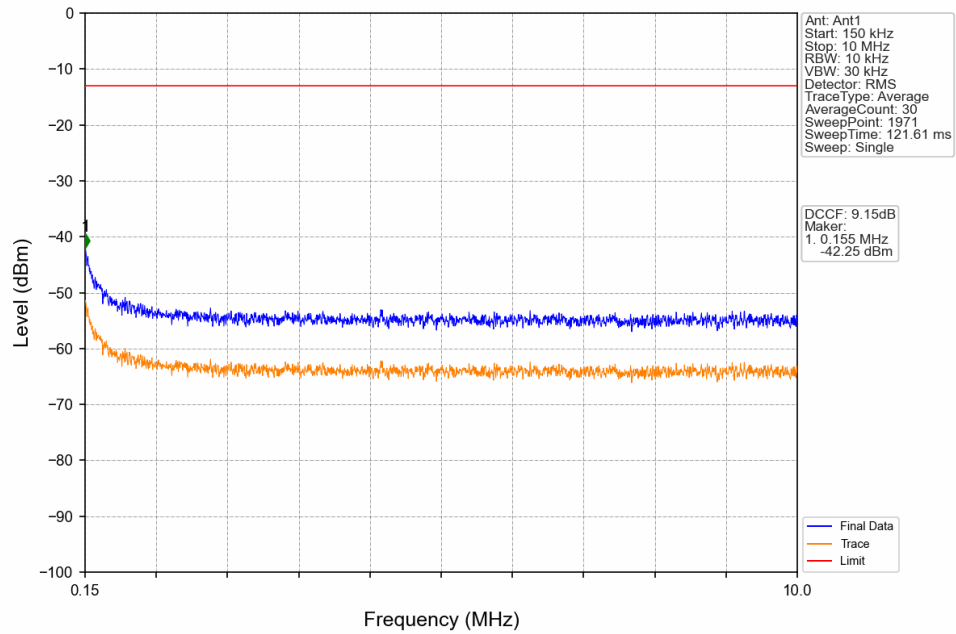
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



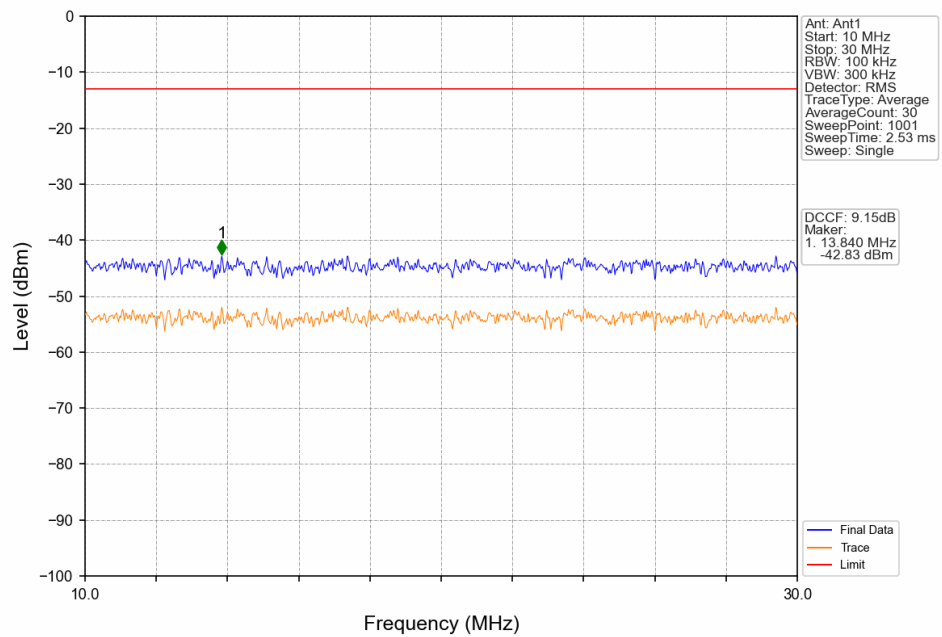
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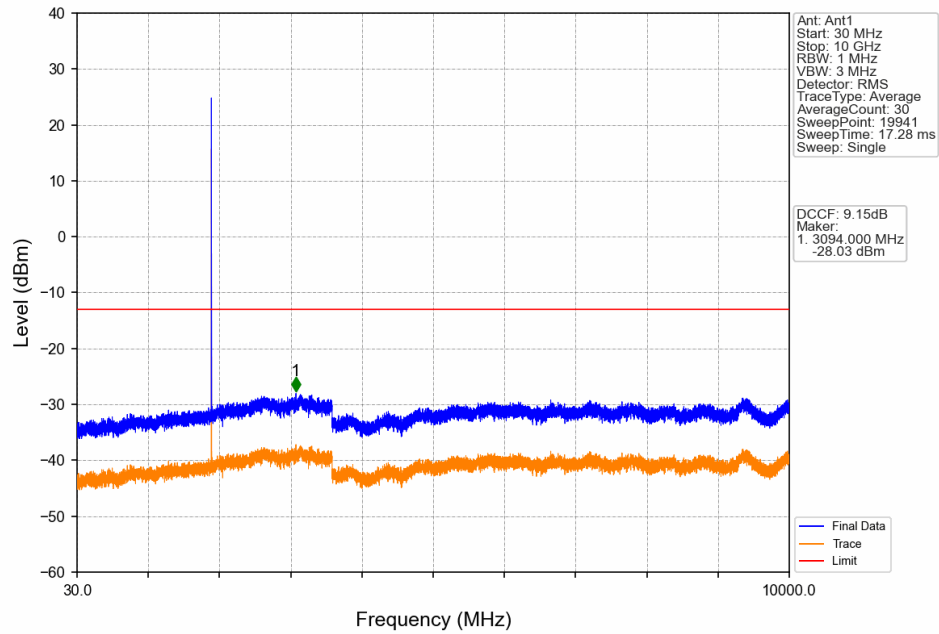
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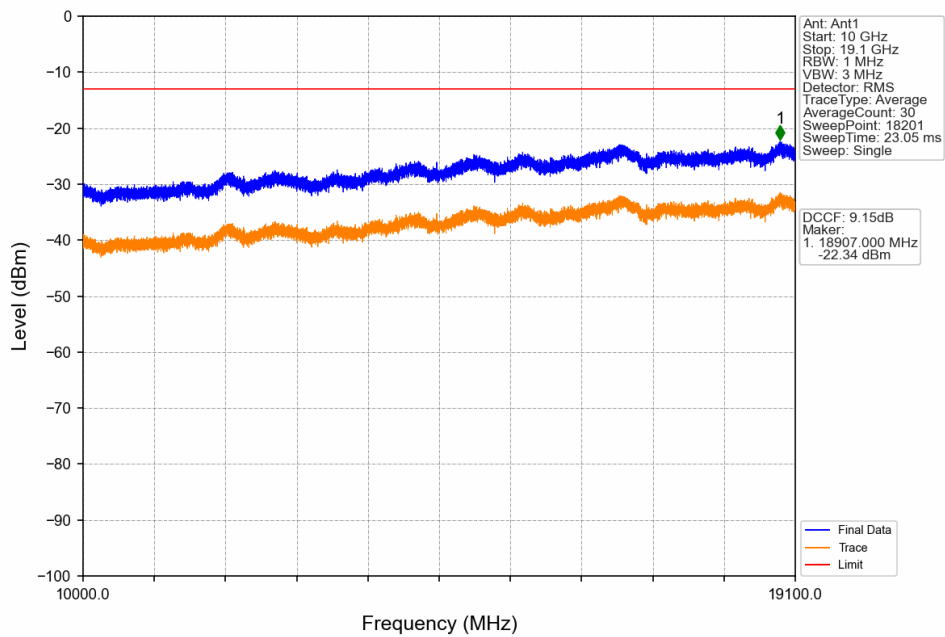
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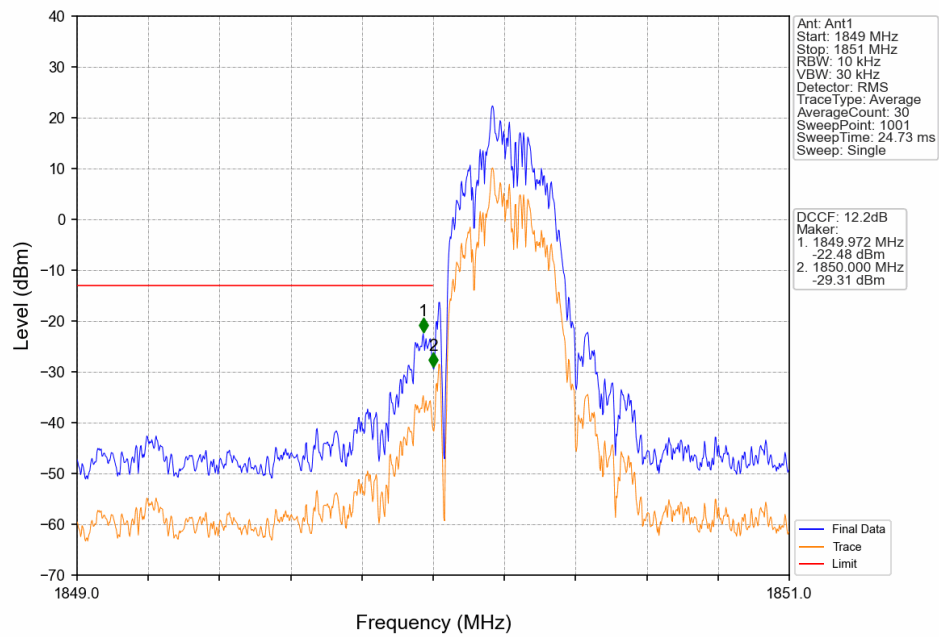
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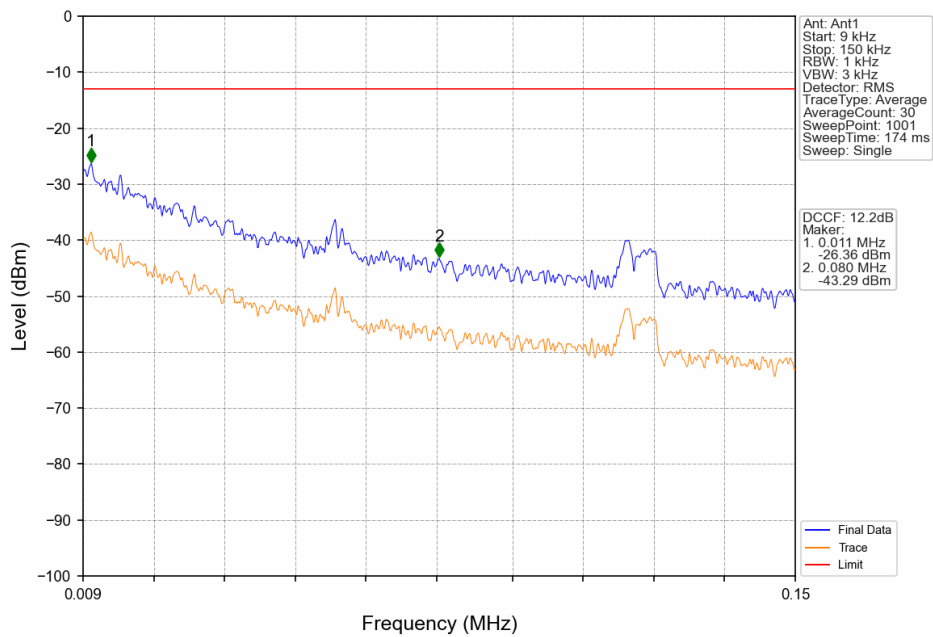
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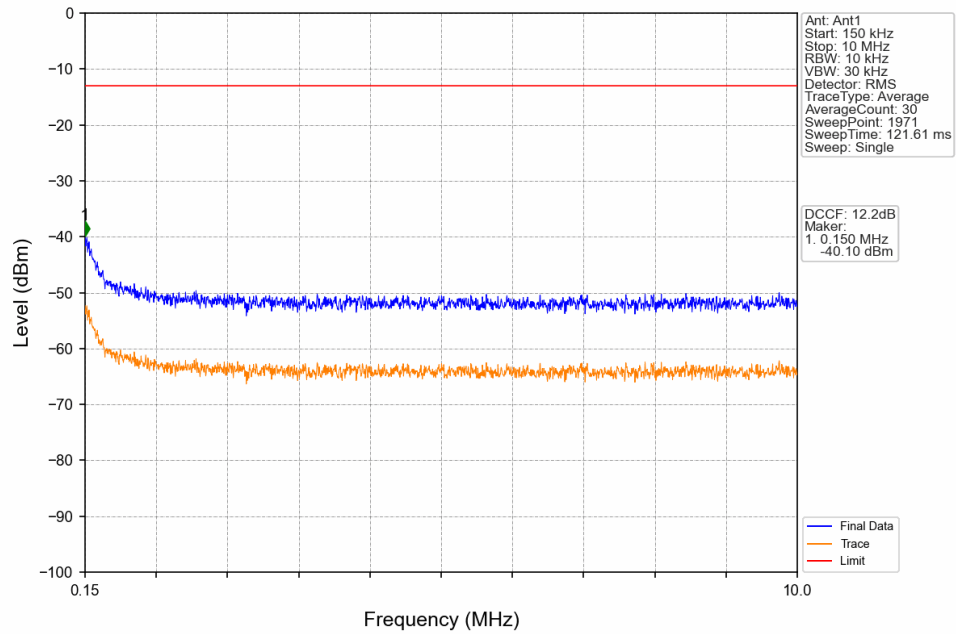
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



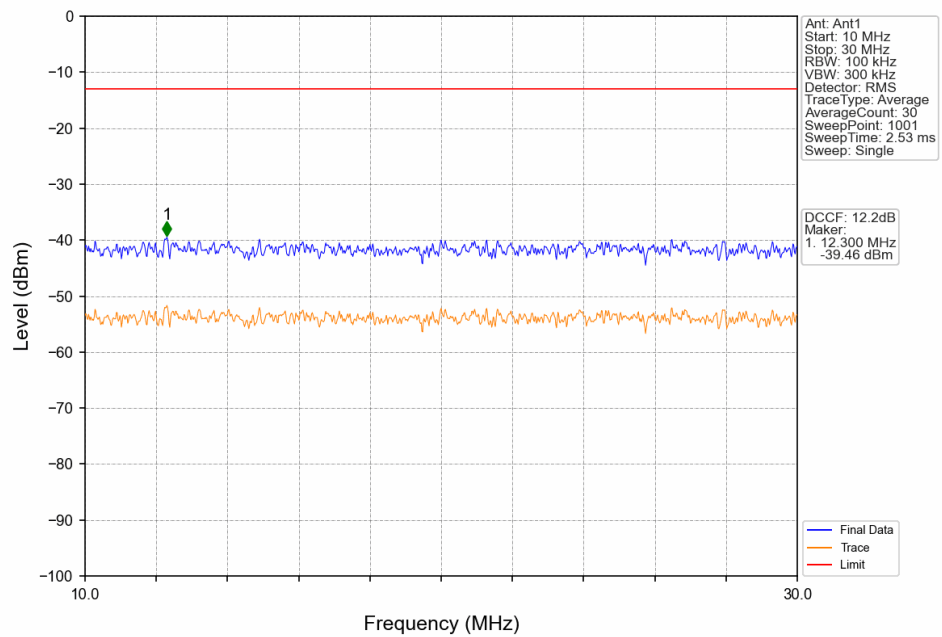
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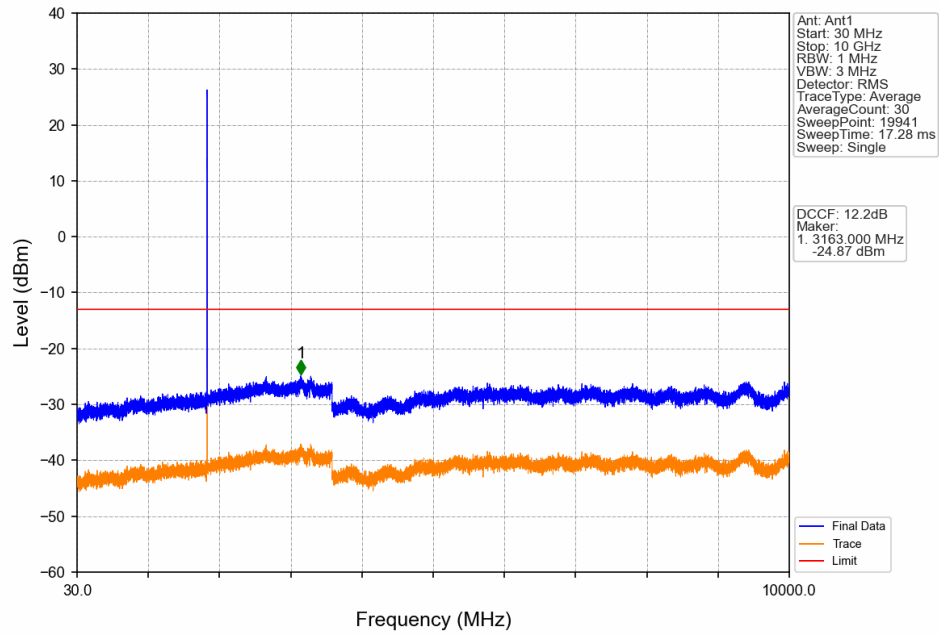
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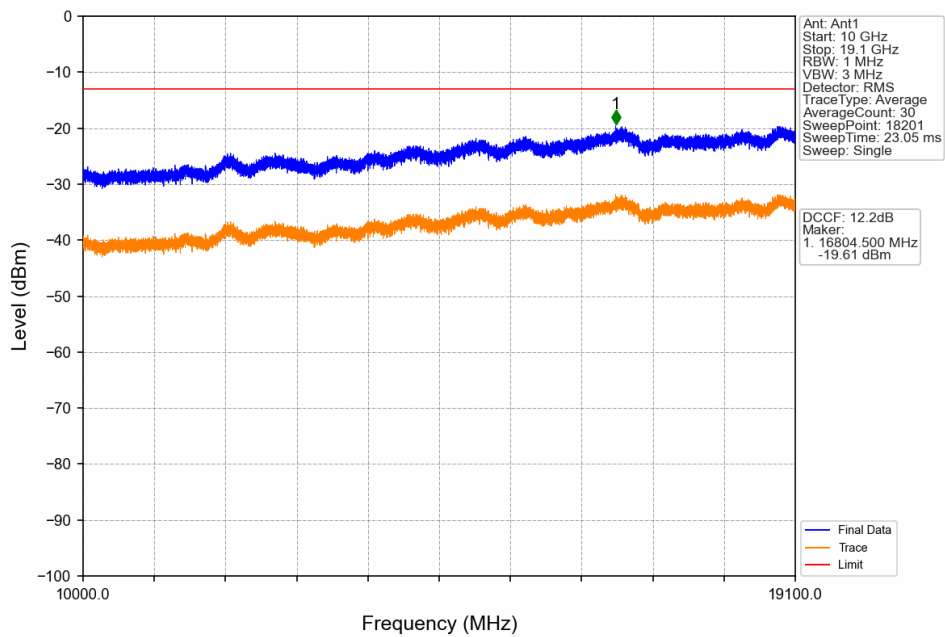
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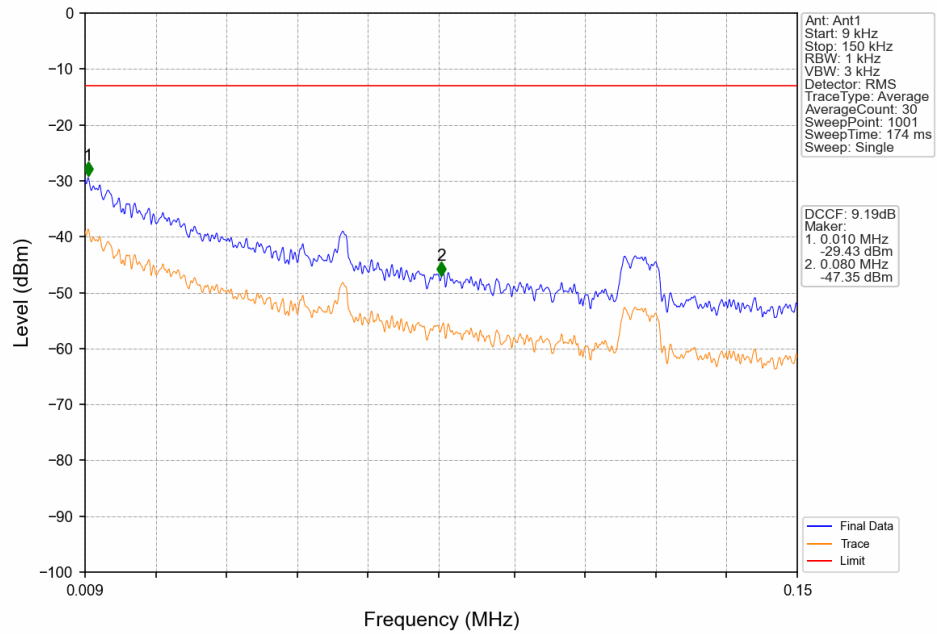
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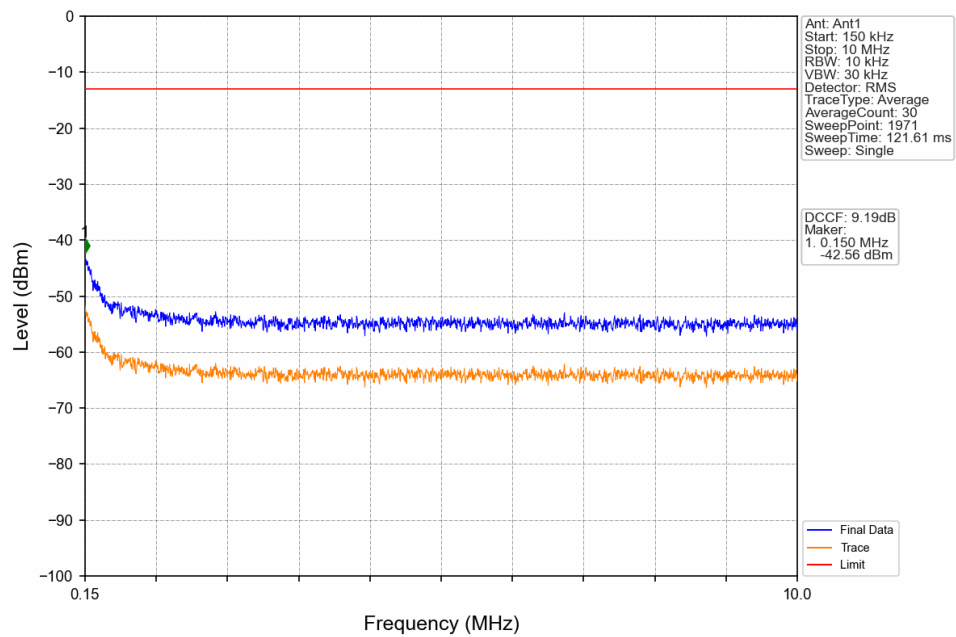
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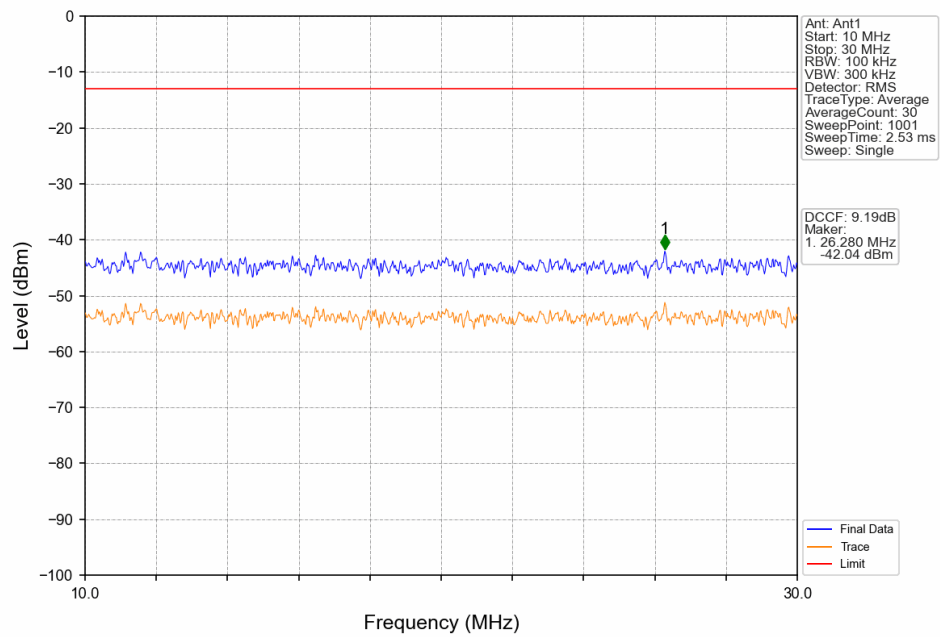
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



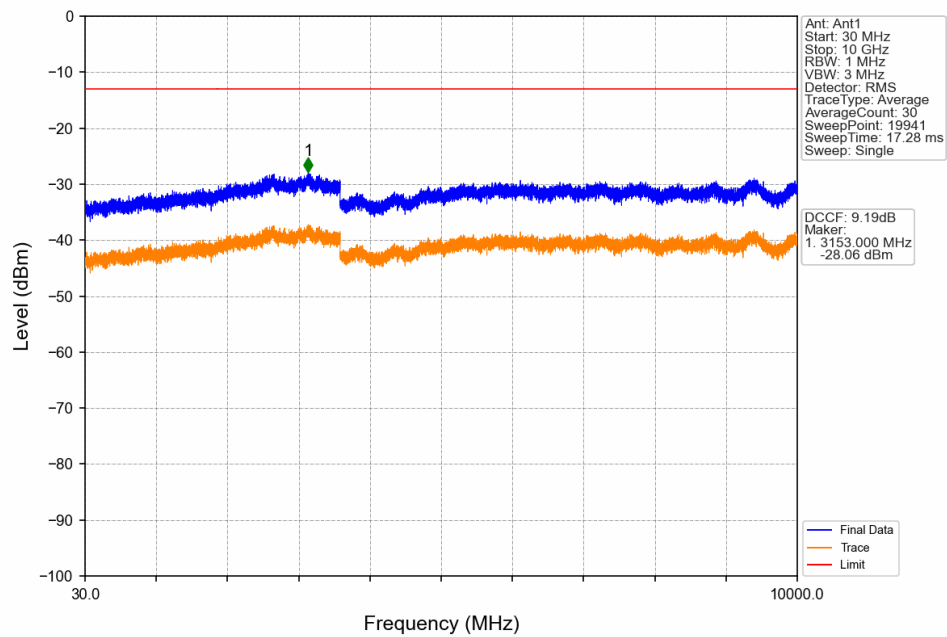
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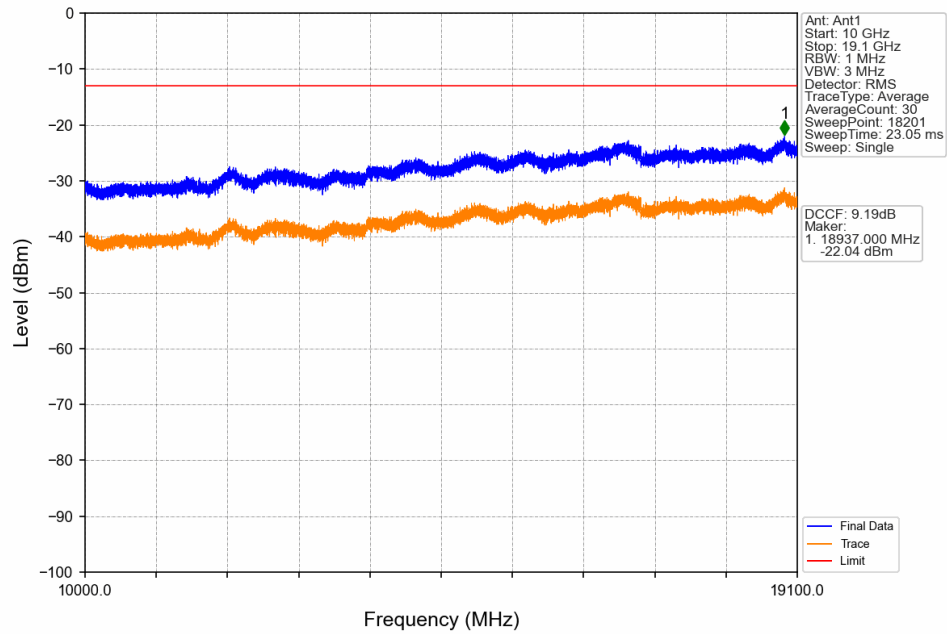
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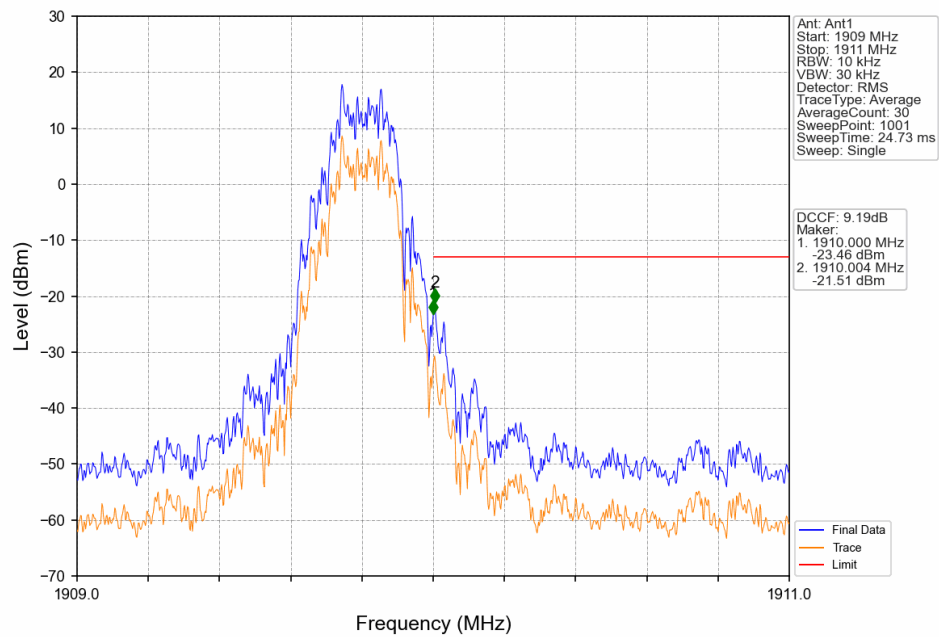
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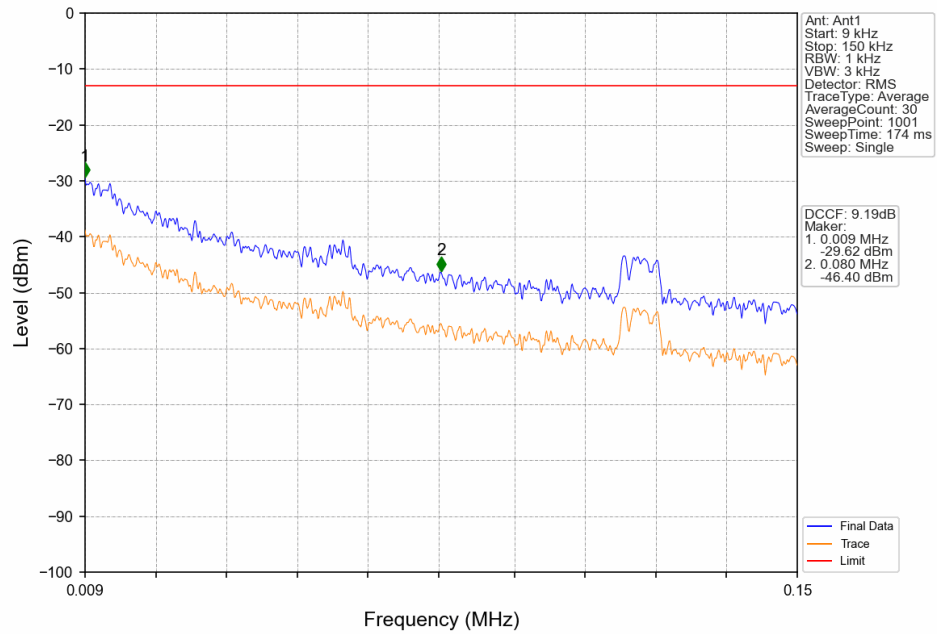
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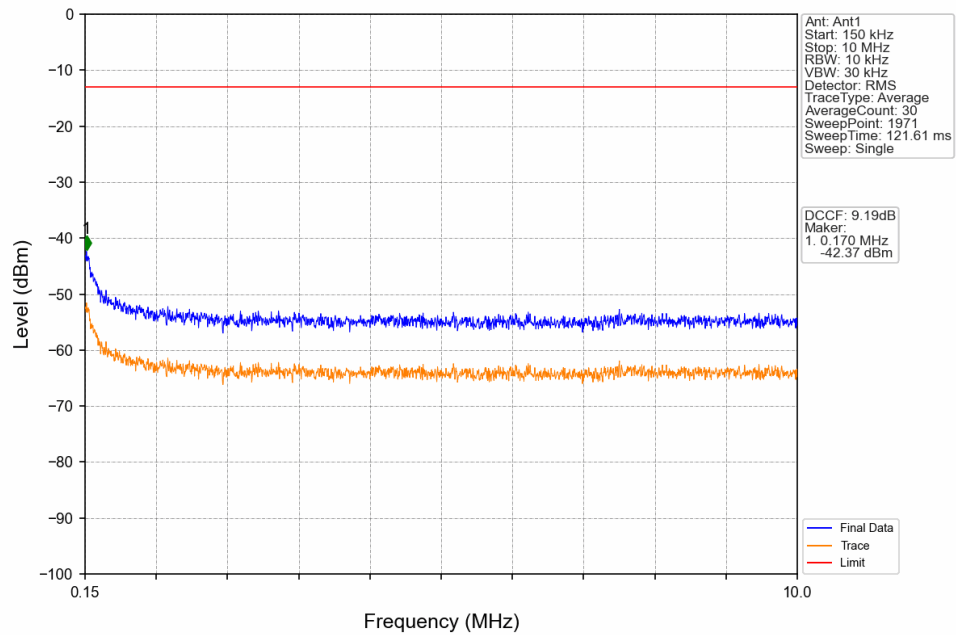
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



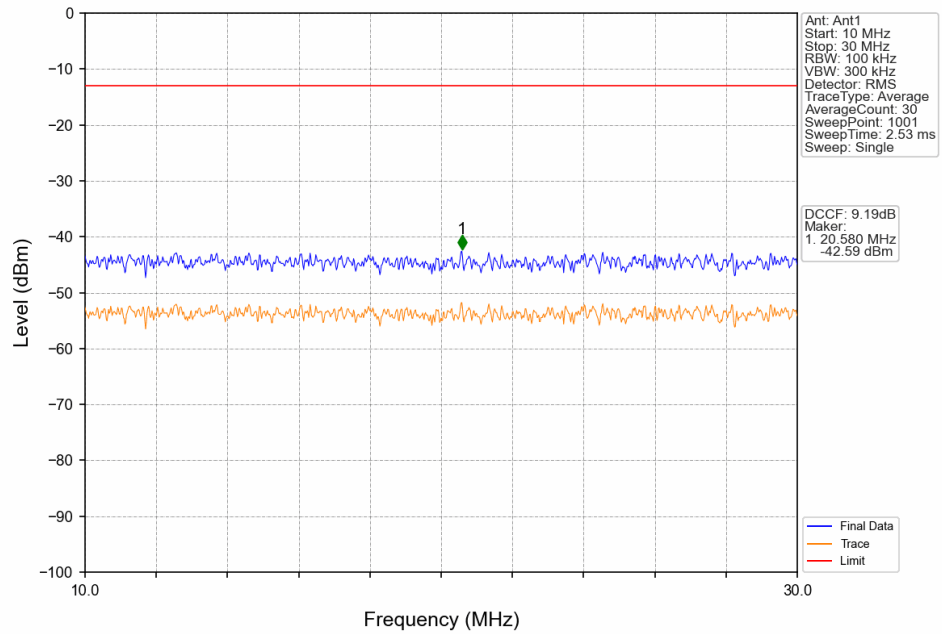
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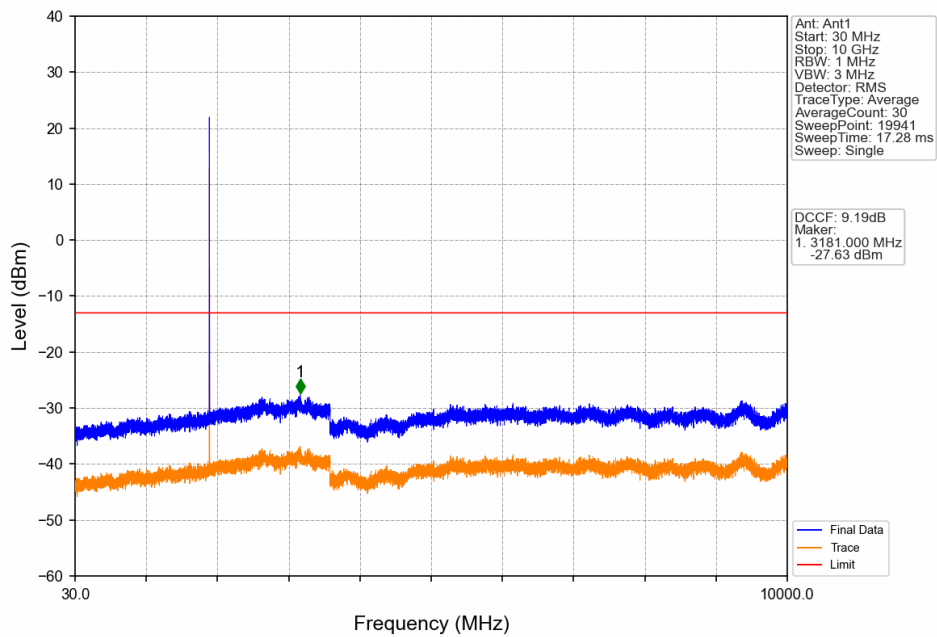
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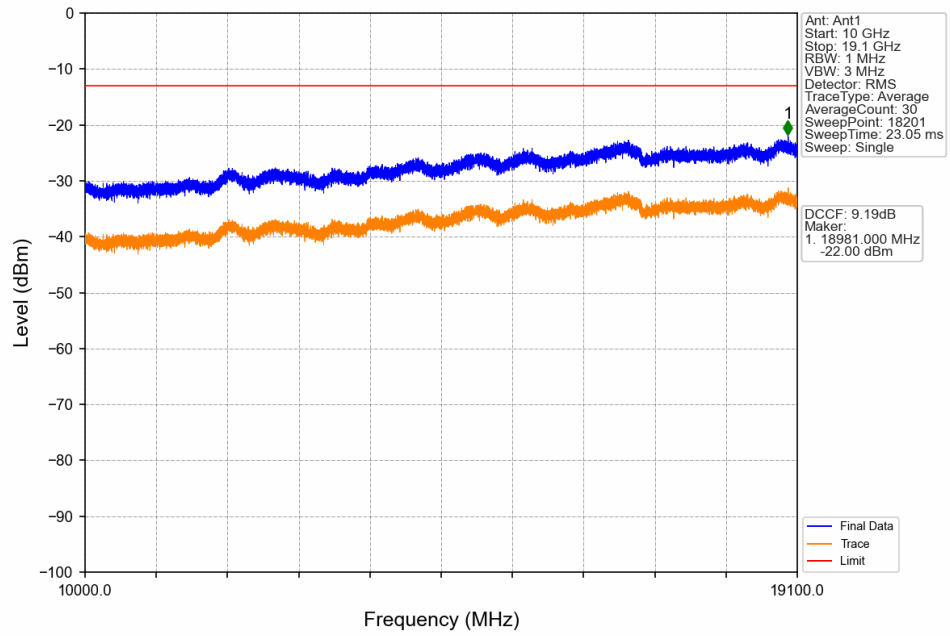
PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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	0.8356	0.0058	ppm	247KGXW	24E	29.22
PCS1900	0.2	1850.2	1909.8	0.5728	0.0096	ppm	258KG7W	24E	27.58

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	0.9099	0.0058	ppm	247KGXW	24E	29.59
PCS1900	0.2	1850.2	1909.8	0.6237	0.0096	ppm	258KG7W	24E	27.95