



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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# Appendix B.2

## PCS 1900



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 PCS1900\_EIRP

#### 1.1.1 Test Result\_Ant1

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GSM	GSM	1850.2	29.44	0.10	29.54	<=33.01	Pass
			1880	29.50	0.10	29.60	<=33.01	Pass
			1909.8	29.69	0.10	29.79	<=33.01	Pass
	GPRS	1 TX Slot	1850.2	20.29	0.10	20.39	<=33.01	Pass
		2 TX Slots	1850.2	27.14	0.10	27.24	<=33.01	Pass
		3 TX Slots	1850.2	25.21	0.10	25.31	<=33.01	Pass
		4 TX Slots	1850.2	24.21	0.10	24.31	<=33.01	Pass
		1 TX Slot	1880	29.48	0.10	29.58	<=33.01	Pass
		2 TX Slots	1880	27.05	0.10	27.15	<=33.01	Pass
		3 TX Slots	1880	25.04	0.10	25.14	<=33.01	Pass
		4 TX Slots	1880	24.04	0.10	24.14	<=33.01	Pass
		1 TX Slot	1909.8	29.65	0.10	29.75	<=33.01	Pass
		2 TX Slots	1909.8	27.16	0.10	27.26	<=33.01	Pass
		3 TX Slots	1909.8	25.12	0.10	25.22	<=33.01	Pass
		4 TX Slots	1909.8	24.13	0.10	24.23	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	28.51	0.10	28.61	<=33.01	Pass
		2 TX Slots	1850.2	25.97	0.10	26.07	<=33.01	Pass
		3 TX Slots	1850.2	24.27	0.10	24.37	<=33.01	Pass
		4 TX Slots	1850.2	23.11	0.10	23.21	<=33.01	Pass
		1 TX Slot	1880	28.03	0.10	28.13	<=33.01	Pass
		2 TX Slots	1880	25.80	0.10	25.90	<=33.01	Pass
		3 TX Slots	1880	23.75	0.10	23.85	<=33.01	Pass
		4 TX Slots	1880	22.65	0.10	22.75	<=33.01	Pass
		1 TX Slot	1909.8	28.30	0.10	28.40	<=33.01	Pass
		2 TX Slots	1909.8	25.28	0.10	25.38	<=33.01	Pass
		3 TX Slots	1909.8	23.22	0.10	23.32	<=33.01	Pass
		4 TX Slots	1909.8	22.30	0.10	22.40	<=33.01	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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## 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	3.6	-2.777	-0.0015	/	Pass
			3.84	5.650	0.0031	/	Pass
			4.3	3.099	0.0017	/	Pass
		-30	3.84	2.518	0.0014	/	Pass
		-20	3.84	-0.839	-0.0005	/	Pass
		-10	3.84	3.035	0.0016	/	Pass
		0	3.84	-1.582	-0.0009	/	Pass
		10	3.84	2.680	0.0014	/	Pass
		30	3.84	4.100	0.0022	/	Pass
		40	3.84	-1.162	-0.0006	/	Pass
		50	3.84	0.420	0.0002	/	Pass
	1880	20	3.6	5.489	0.0029	/	Pass
			3.84	1.614	0.0009	/	Pass
			4.3	-0.613	-0.0003	/	Pass
		-30	3.84	1.614	0.0009	/	Pass
		-20	3.84	7.393	0.0039	/	Pass
		-10	3.84	6.037	0.0032	/	Pass
		0	3.84	-1.711	-0.0009	/	Pass
		10	3.84	1.291	0.0007	/	Pass
		30	3.84	4.003	0.0021	/	Pass
		40	3.84	-2.486	-0.0013	/	Pass
		50	3.84	4.133	0.0022	/	Pass
	1909.8	20	3.6	3.229	0.0017	/	Pass
			3.84	-0.355	-0.0002	/	Pass
			4.3	0.743	0.0004	/	Pass
		-30	3.84	-1.453	-0.0008	/	Pass
		-20	3.84	1.905	0.0010	/	Pass
		-10	3.84	5.359	0.0028	/	Pass
		0	3.84	2.583	0.0014	/	Pass
		10	3.84	0.904	0.0005	/	Pass
		30	3.84	1.291	0.0007	/	Pass
		40	3.84	4.294	0.0022	/	Pass
		50	3.84	-4.972	-0.0026	/	Pass
GPRS	1850.2	20	3.6	0.032	0.0000	/	Pass
			3.84	2.873	0.0016	/	Pass
			4.3	-0.807	-0.0004	/	Pass
		-30	3.84	7.716	0.0042	/	Pass
		-20	3.84	3.229	0.0017	/	Pass
		-10	3.84	5.004	0.0027	/	Pass



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		0	3.84	6.005	0.0032	/	Pass
		10	3.84	6.651	0.0036	/	Pass
		30	3.84	-0.936	-0.0005	/	Pass
		40	3.84	9.427	0.0051	/	Pass
		50	3.84	-0.065	0.0000	/	Pass
	1880	20	3.6	-1.130	-0.0006	/	Pass
			3.84	5.198	0.0028	/	Pass
			4.3	0.517	0.0003	/	Pass
		-30	3.84	3.455	0.0018	/	Pass
		-20	3.84	3.971	0.0021	/	Pass
		-10	3.84	5.908	0.0031	/	Pass
		0	3.84	4.875	0.0026	/	Pass
		10	3.84	0.484	0.0003	/	Pass
		30	3.84	2.906	0.0015	/	Pass
		40	3.84	2.615	0.0014	/	Pass
		50	3.84	3.293	0.0018	/	Pass
	1909.8	20	3.6	5.133	0.0027	/	Pass
			3.84	7.910	0.0041	/	Pass
			4.3	-0.258	-0.0001	/	Pass
		-30	3.84	1.969	0.0010	/	Pass
		-20	3.84	4.133	0.0022	/	Pass
		-10	3.84	3.132	0.0016	/	Pass
		0	3.84	0.000	0.0000	/	Pass
		10	3.84	0.807	0.0004	/	Pass
		30	3.84	3.551	0.0019	/	Pass
		40	3.84	2.873	0.0015	/	Pass
		50	3.84	2.228	0.0012	/	Pass
EGPRS	1850.2	20	3.6	9.072	0.0049	/	Pass
			3.84	4.488	0.0024	/	Pass
			4.3	3.939	0.0021	/	Pass
		-30	3.84	7.458	0.0040	/	Pass
		-20	3.84	3.713	0.0020	/	Pass
		-10	3.84	1.517	0.0008	/	Pass
		0	3.84	6.102	0.0033	/	Pass
		10	3.84	11.913	0.0064	/	Pass
		30	3.84	4.520	0.0024	/	Pass
		40	3.84	0.904	0.0005	/	Pass
		50	3.84	4.875	0.0026	/	Pass
	1880	20	3.6	-2.906	-0.0015	/	Pass
			3.84	1.485	0.0008	/	Pass
			4.3	5.263	0.0028	/	Pass
		-30	3.84	3.971	0.0021	/	Pass
		-20	3.84	2.777	0.0015	/	Pass
		-10	3.84	5.811	0.0031	/	Pass
		0	3.84	1.291	0.0007	/	Pass
		10	3.84	7.458	0.0040	/	Pass
		30	3.84	2.970	0.0016	/	Pass
		40	3.84	5.101	0.0027	/	Pass
		50	3.84	0.258	0.0001	/	Pass



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	1909.8	20	3.6	2.292	0.0012	/	Pass
			3.84	-1.711	-0.0009	/	Pass
			4.3	2.583	0.0014	/	Pass
		-30	3.84	3.358	0.0018	/	Pass
		-20	3.84	6.941	0.0036	/	Pass
		-10	3.84	-1.873	-0.0010	/	Pass
		0	3.84	3.487	0.0018	/	Pass
		10	3.84	2.551	0.0013	/	Pass
		30	3.84	-1.001	-0.0005	/	Pass
		40	3.84	-0.291	-0.0002	/	Pass
		50	3.84	3.519	0.0018	/	Pass



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## 3. 99% & 26dB Bandwidth

### 3.1 PCS1900\_OBW

#### 3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.245	/	Pass
			1880	0.246	/	Pass
			1909.8	0.244	/	Pass
	GPRS	1 TX Slot	1850.2	0.244	/	Pass
			1880	0.248	/	Pass
			1909.8	0.249	/	Pass
	EGPRS	1 TX Slot	1850.2	0.261	/	Pass
			1880	0.252	/	Pass
			1909.8	0.248	/	Pass



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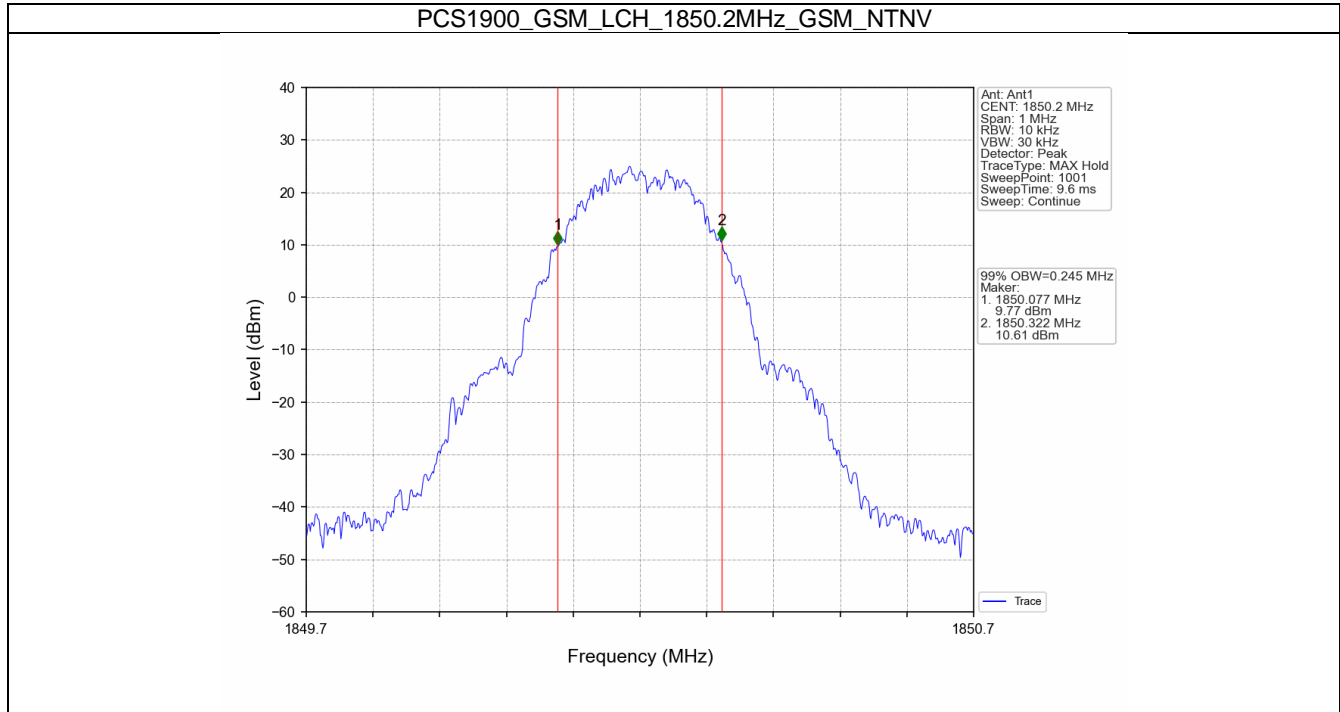
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## 3.1.2 Test Graph



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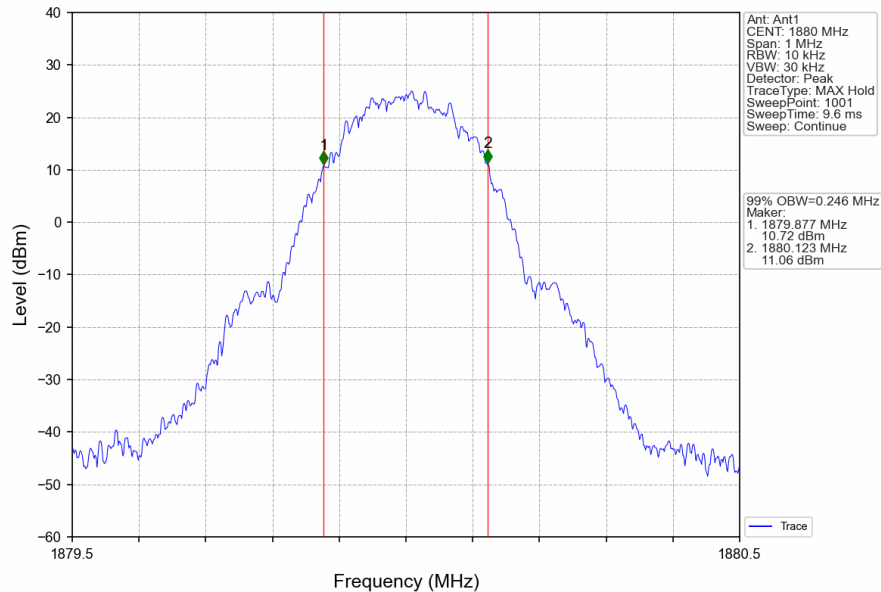
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## PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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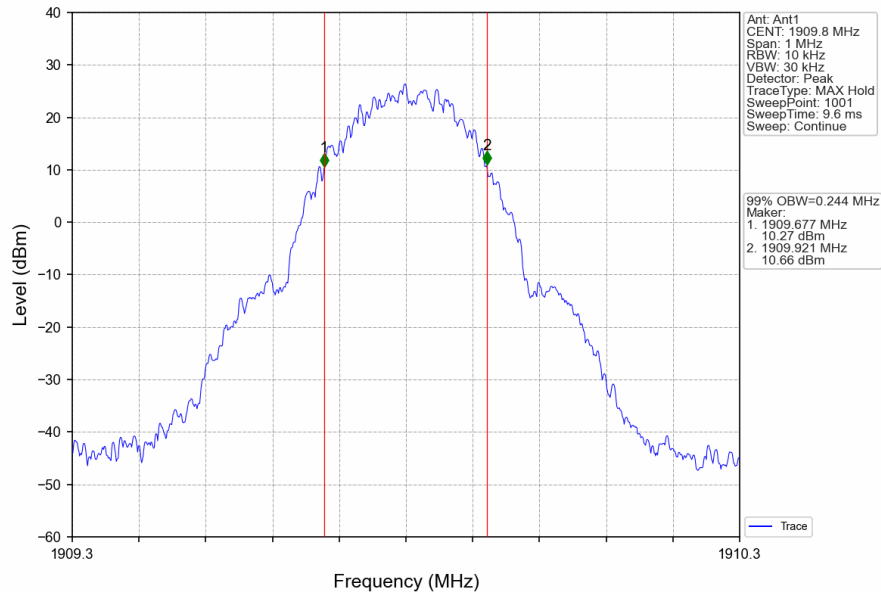
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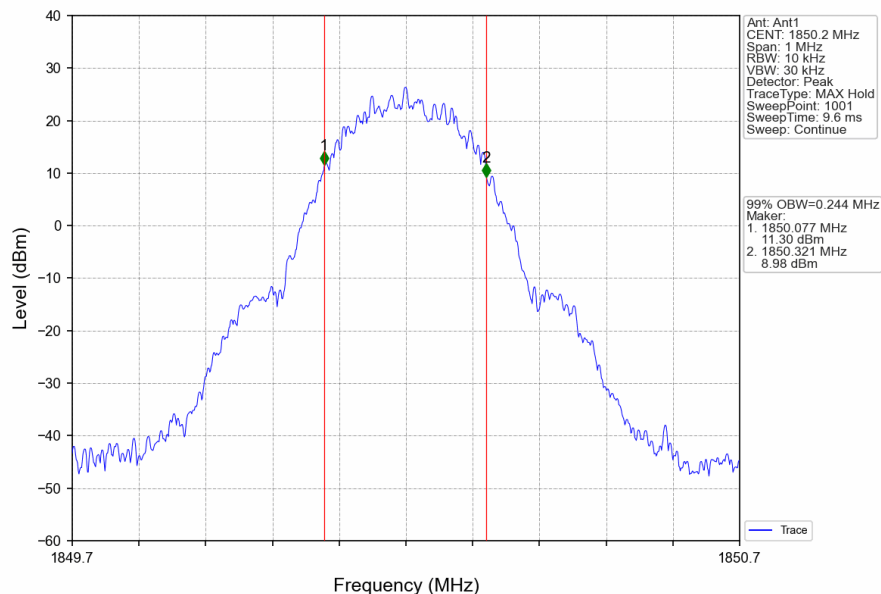
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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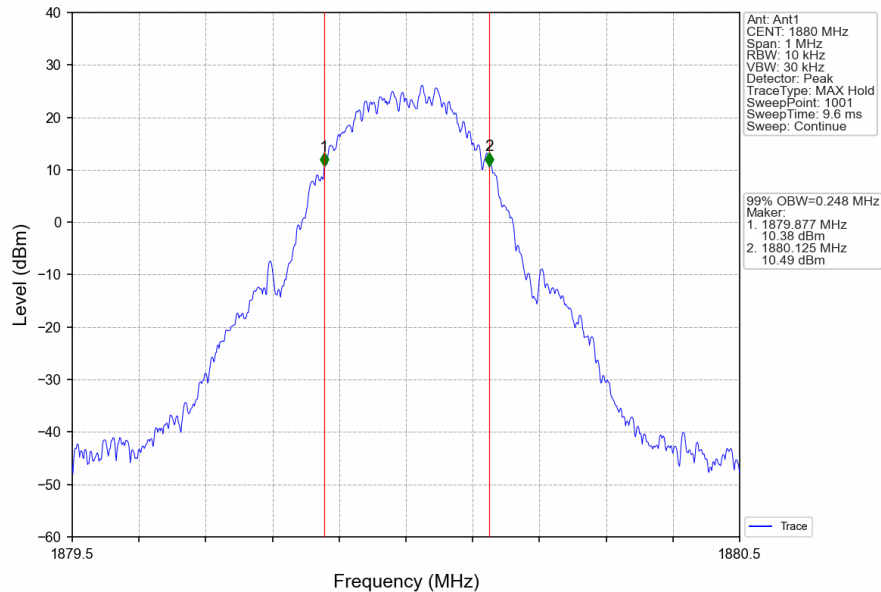
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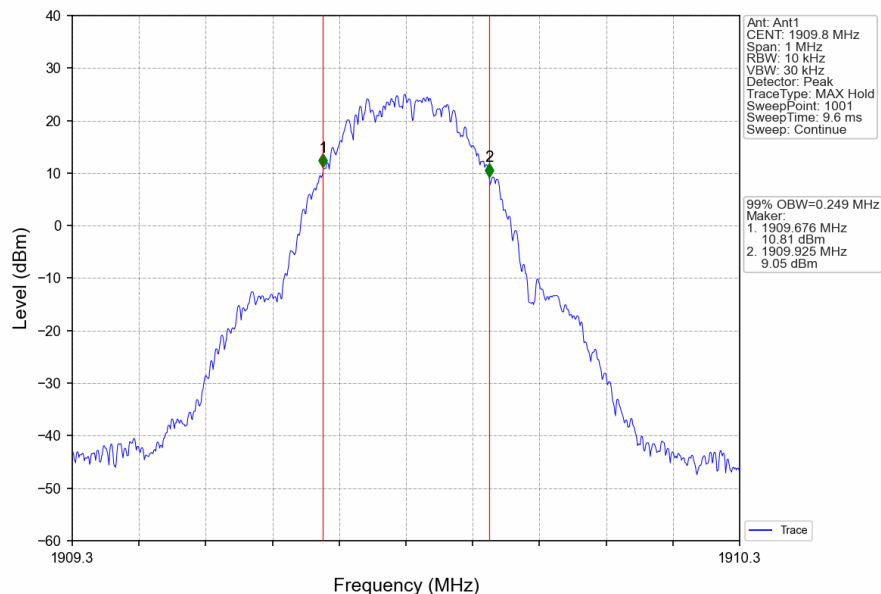
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PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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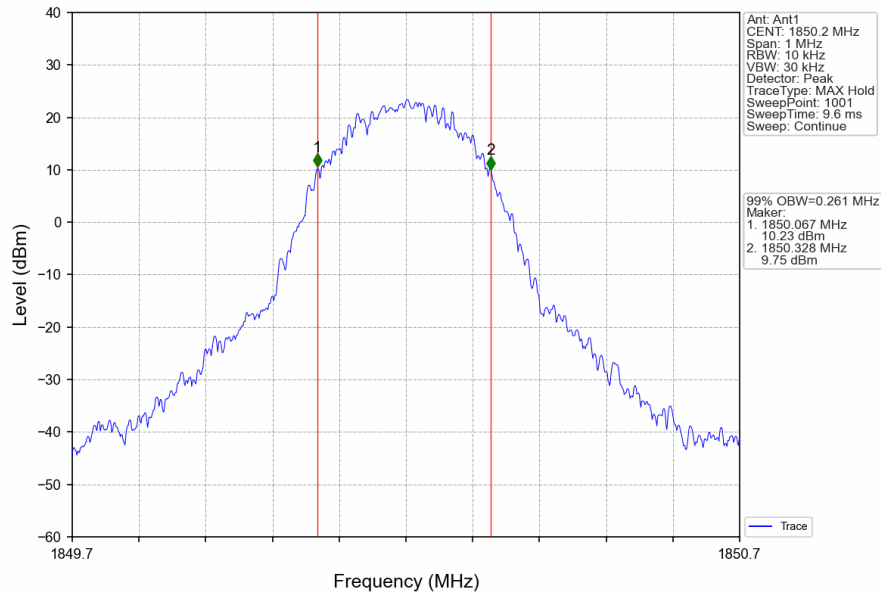
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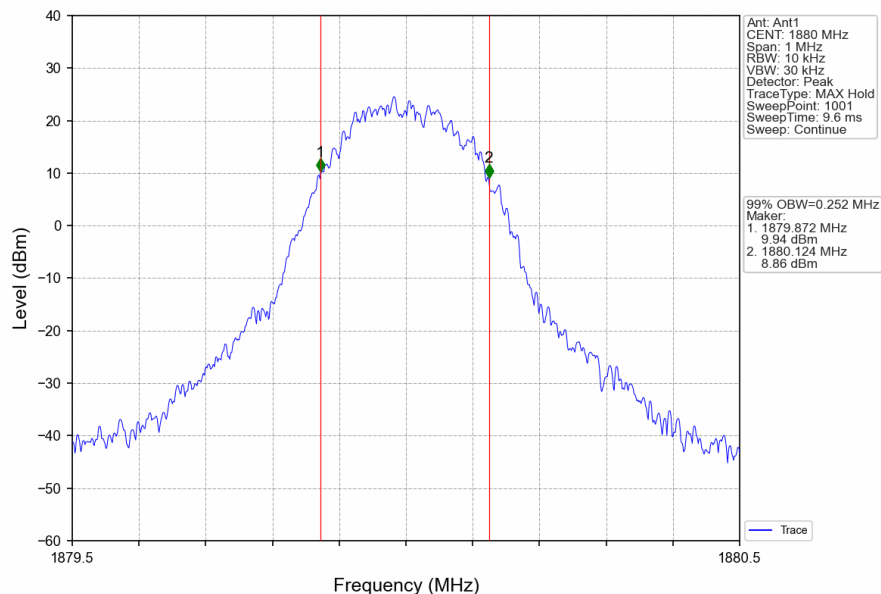
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PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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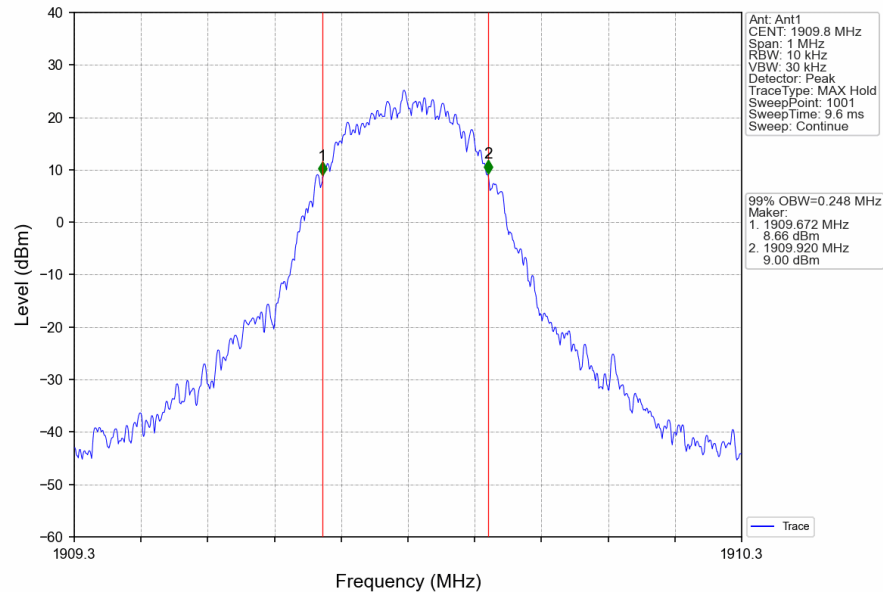
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## 3.2 PCS1900\_XDB

### 3.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.325	/	Pass
			1880	0.320	/	Pass
			1909.8	0.318	/	Pass
	GPRS	1 TX Slot	1850.2	0.311	/	Pass
			1880	0.316	/	Pass
			1909.8	0.324	/	Pass
	EGPRS	1 TX Slot	1850.2	0.335	/	Pass
			1880	0.321	/	Pass
			1909.8	0.310	/	Pass



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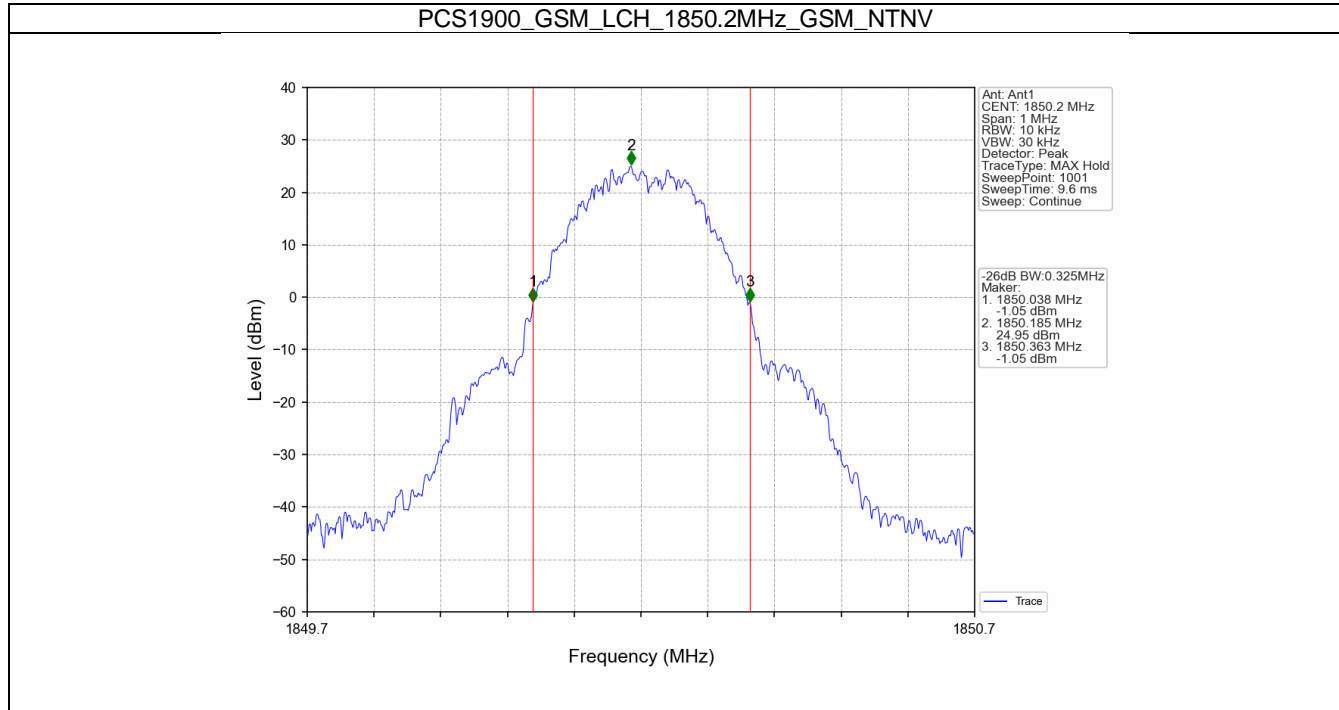
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## 3.2.2 Test Graph



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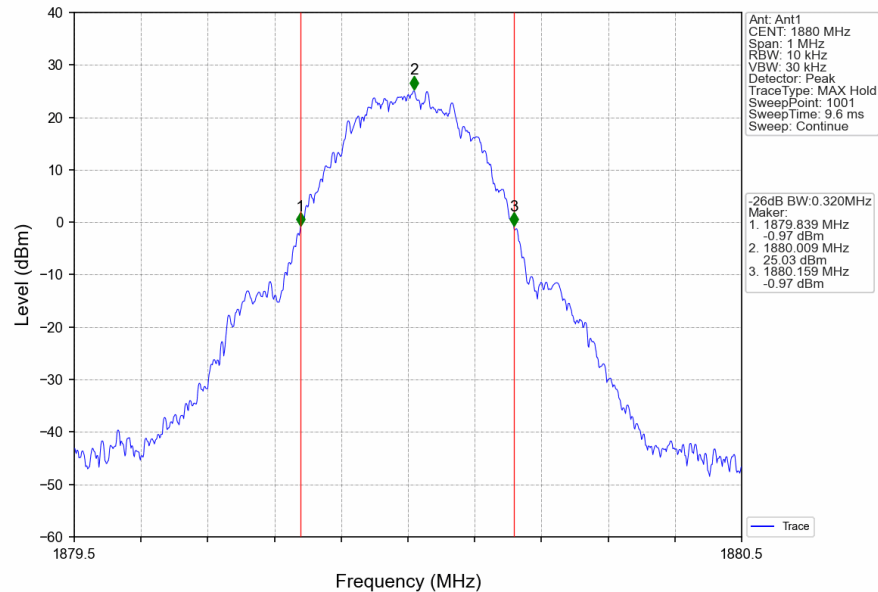
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## PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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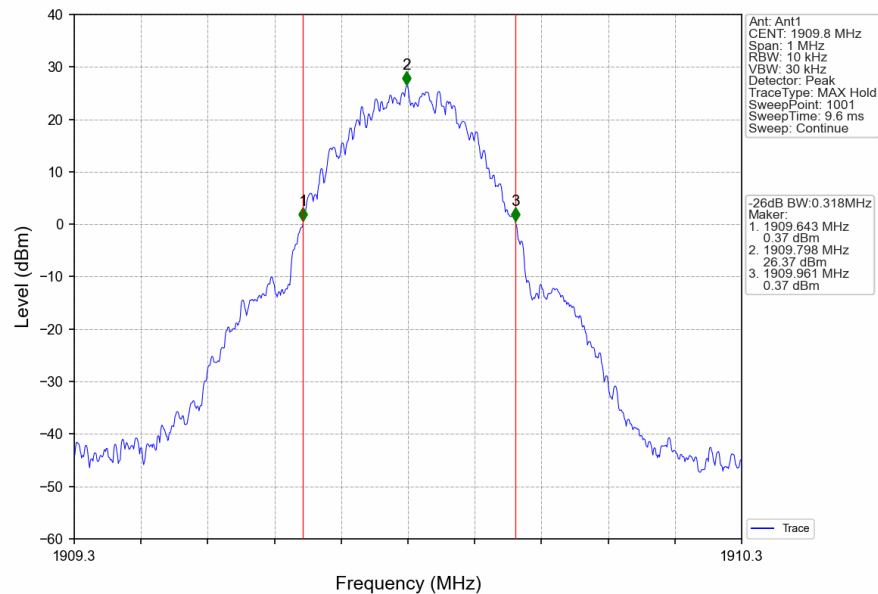
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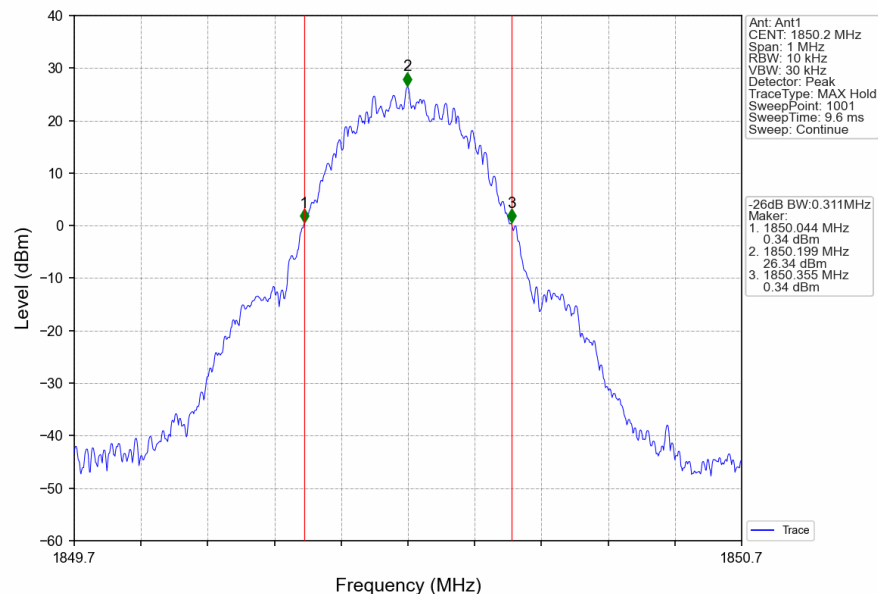
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



PCS1900\_GPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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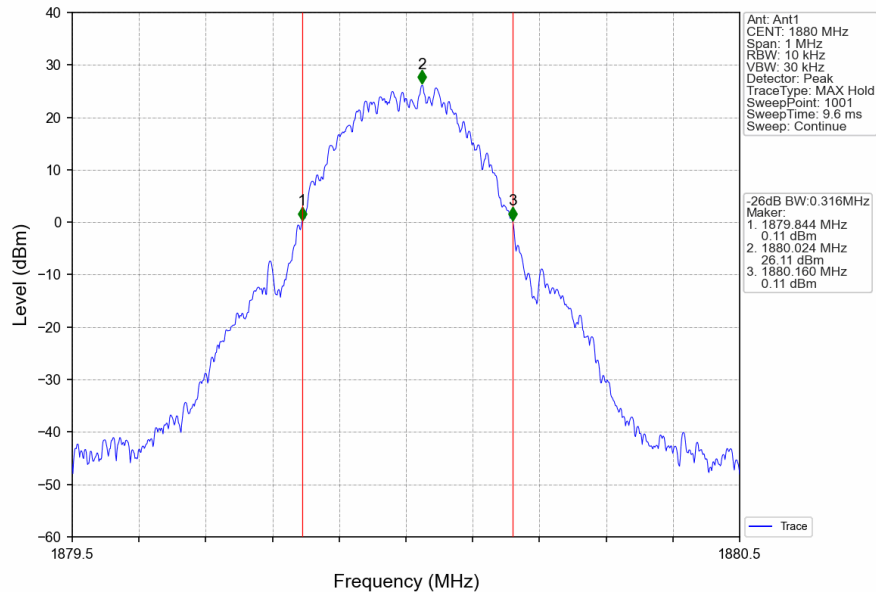
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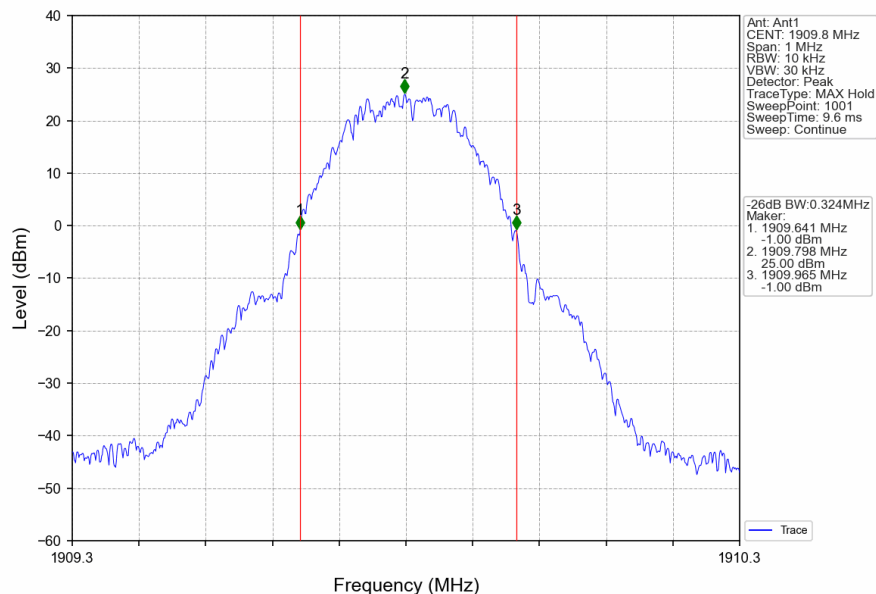
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## PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



## PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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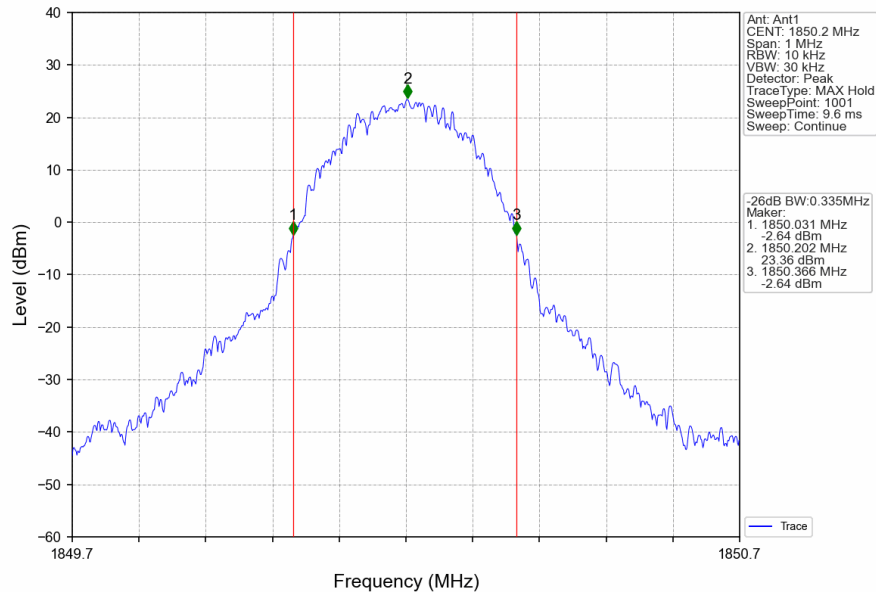
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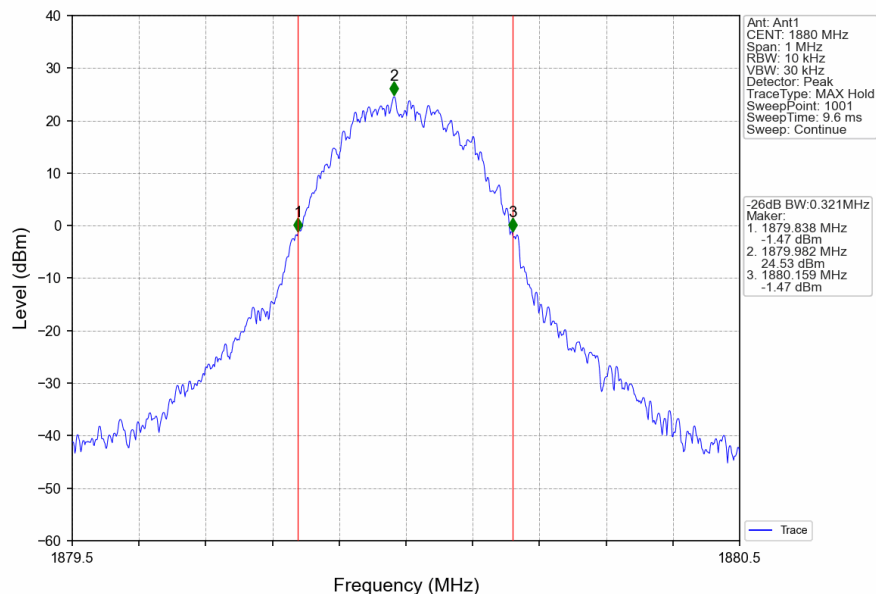
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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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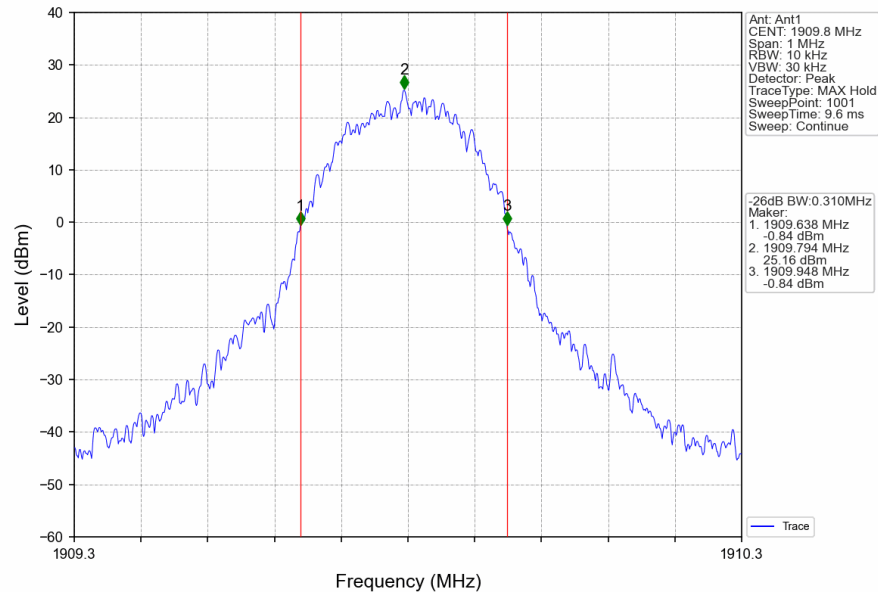
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## 4. Peak-Average Ratio

### 4.1 PCS1900

#### 4.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.54	<=13	Pass
			1880	9.36	<=13	Pass
			1909.8	9.37	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.53	<=13	Pass
			1880	3.64	<=13	Pass
			1909.8	3.48	<=13	Pass
	EGPRS	4 TX Slots	1850.2	6.79	<=13	Pass
			1880	7.03	<=13	Pass
			1909.8	7.35	<=13	Pass



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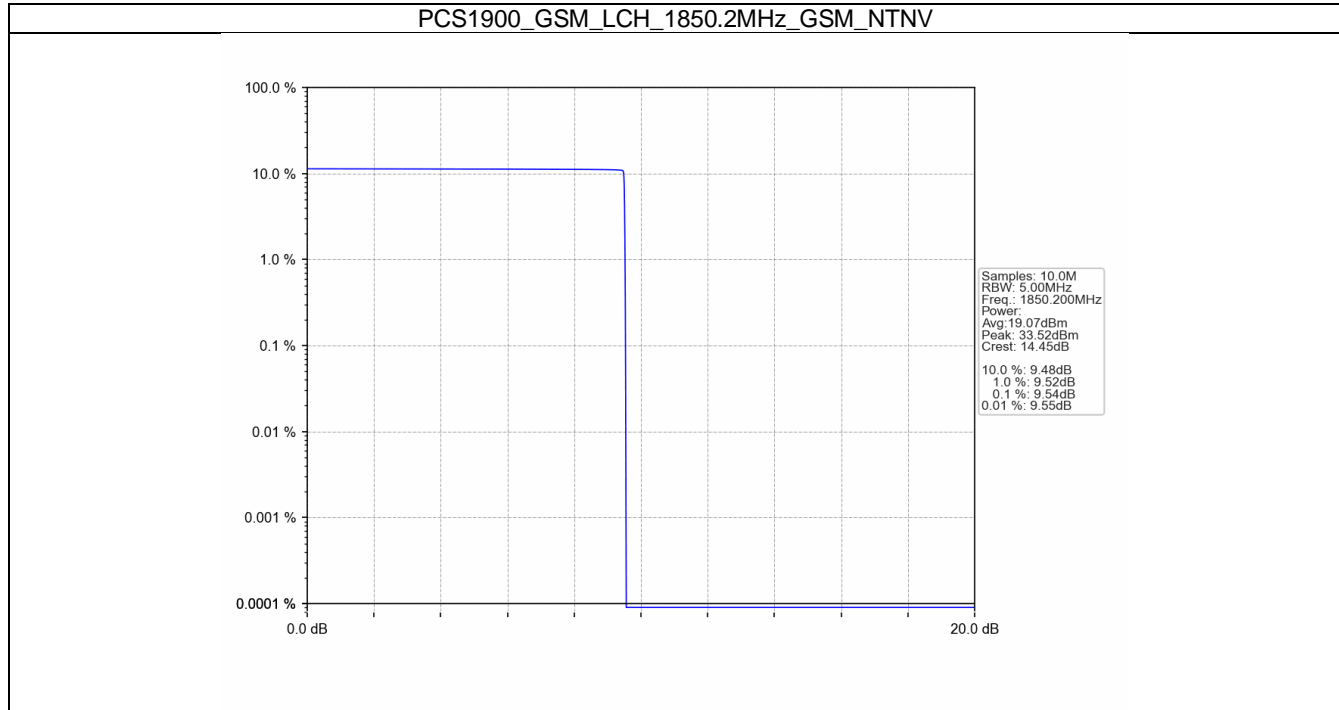
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## 4.1.2 Test Graph



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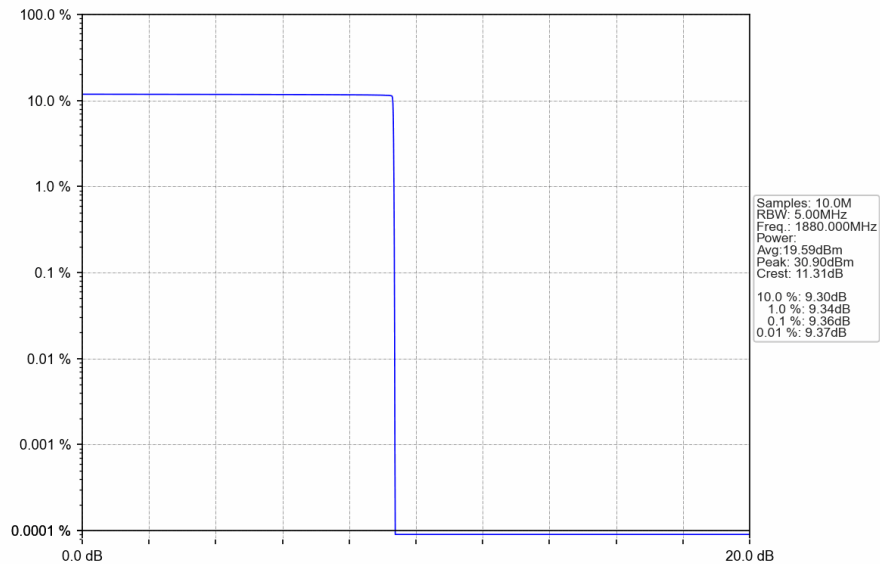
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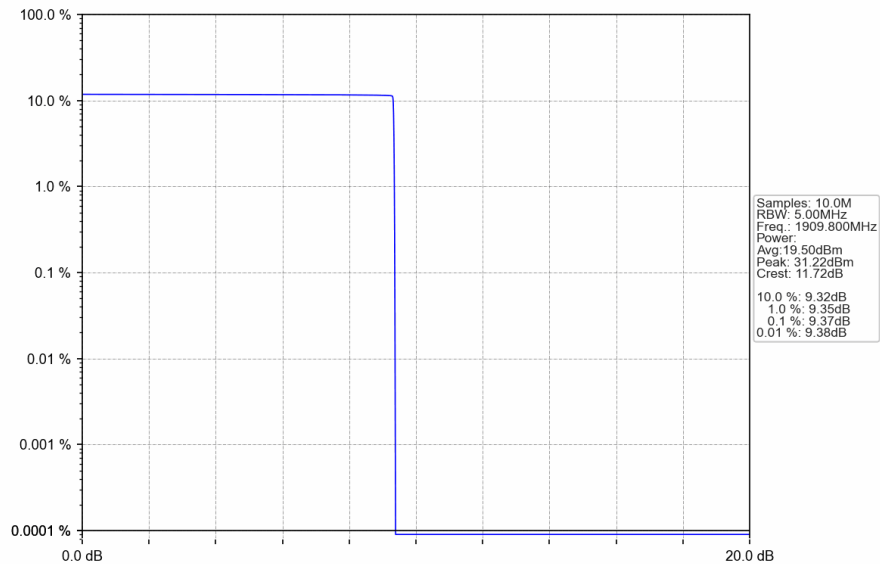
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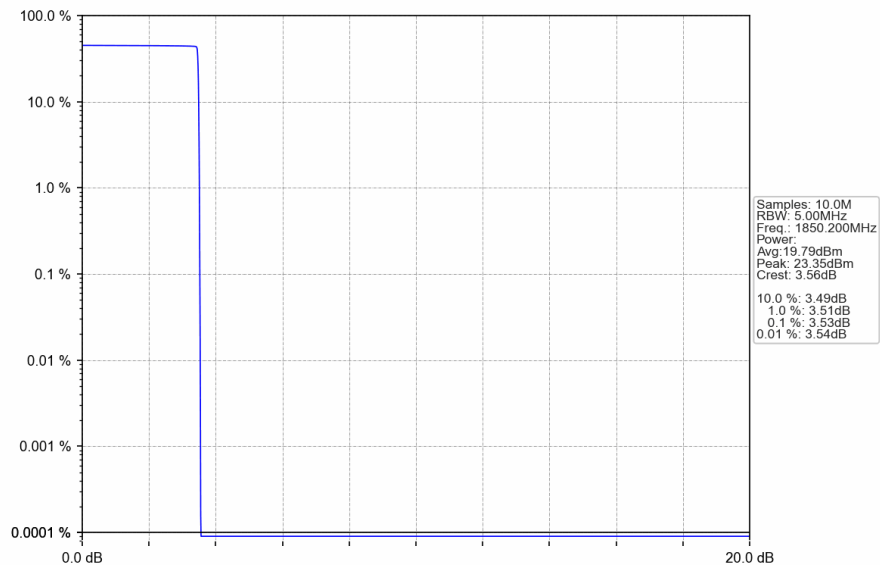
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



PCS1900\_GPRS\_LCH\_1850.2MHz\_4 TX Slots\_NTNV



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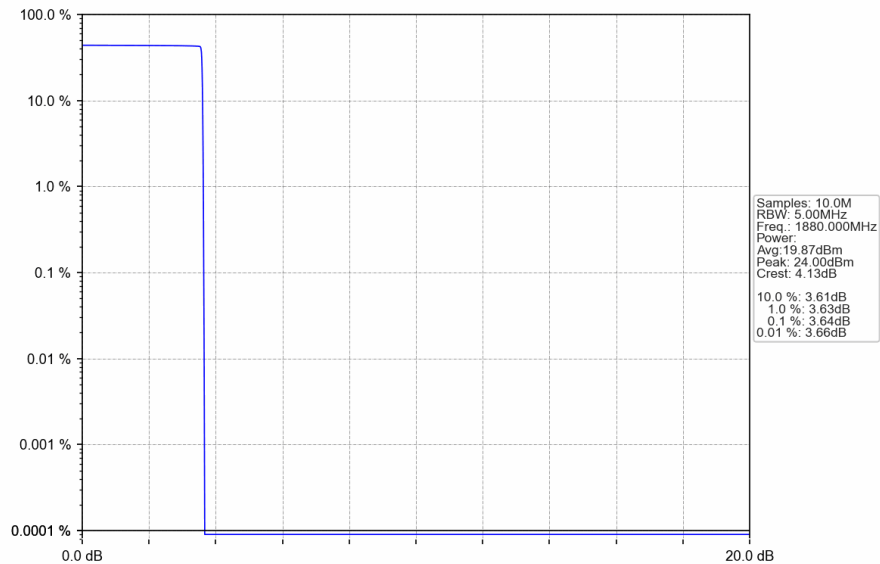
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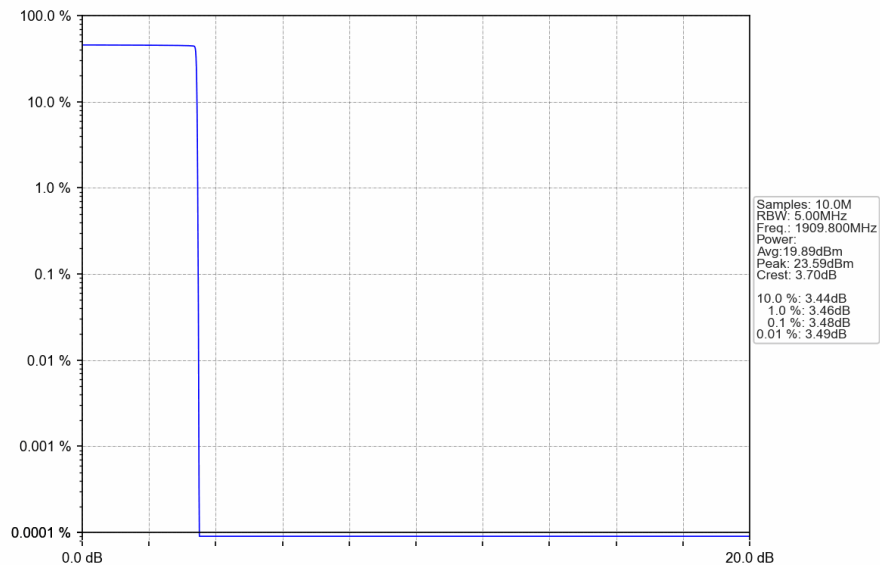
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PCS1900\_GPRS\_MCH\_1880MHz\_4 TX Slots\_NTNV



PCS1900\_GPRS\_HCH\_1909.8MHz\_4 TX Slots\_NTNV



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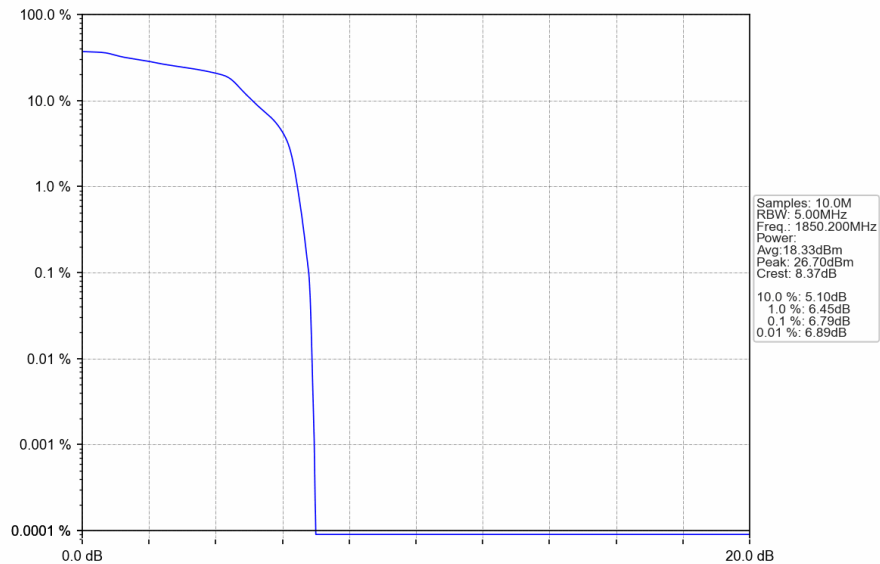
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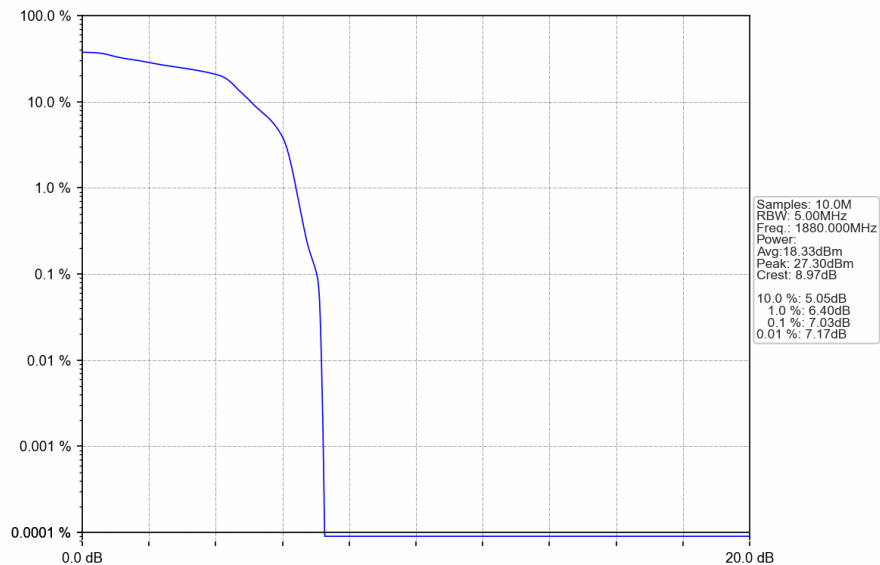
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PCS1900\_EGPRS\_LCH\_1850.2MHz\_4 TX Slots\_NTNV



PCS1900\_EGPRS\_MCH\_1880MHz\_4 TX Slots\_NTNV



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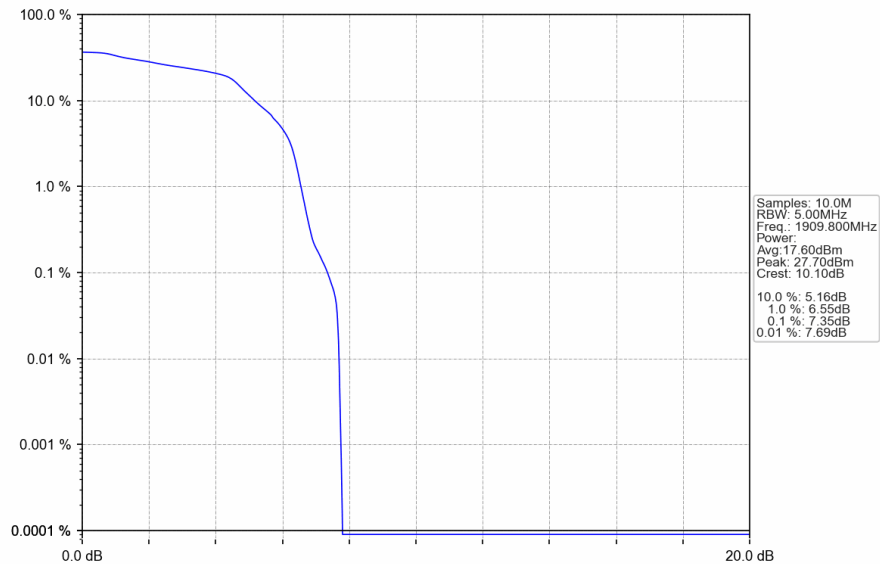
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## 5. Spurious Emission & Band Edge

### 5.1 PCS1900

#### 5.1.1 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	



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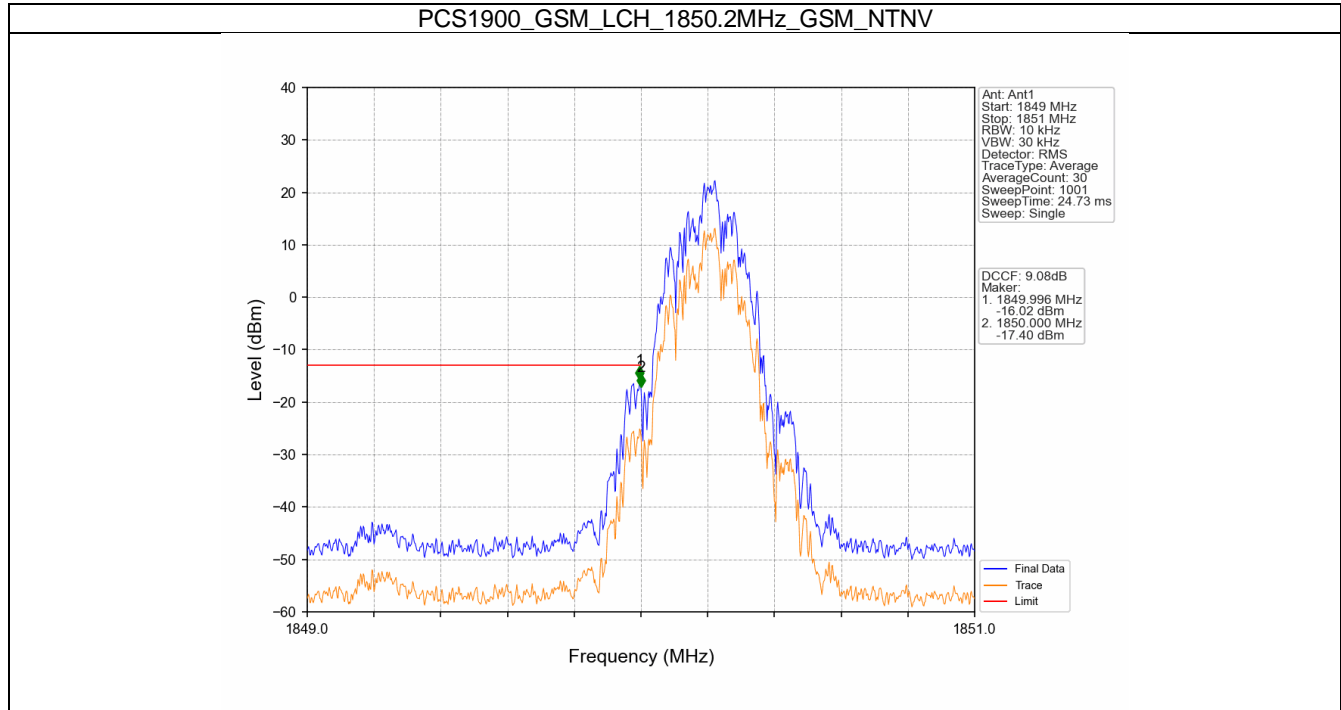
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## 5.1.2 Test Graph



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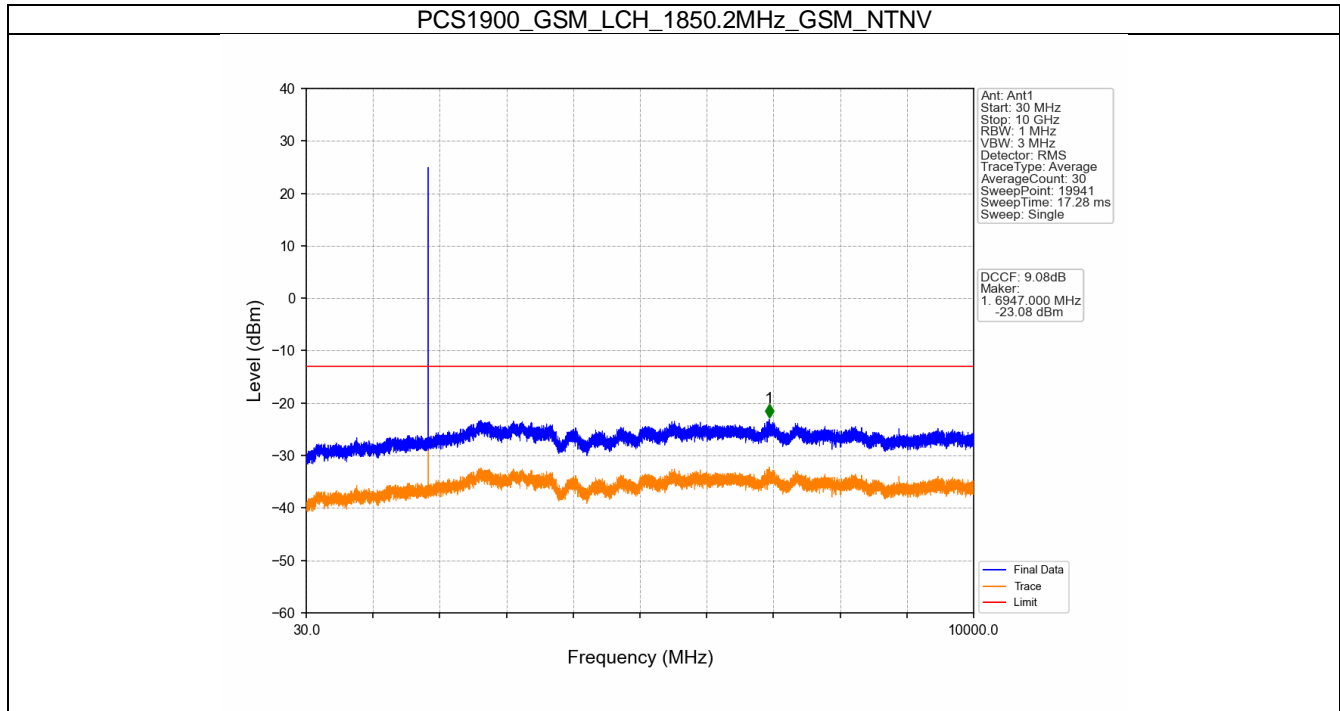


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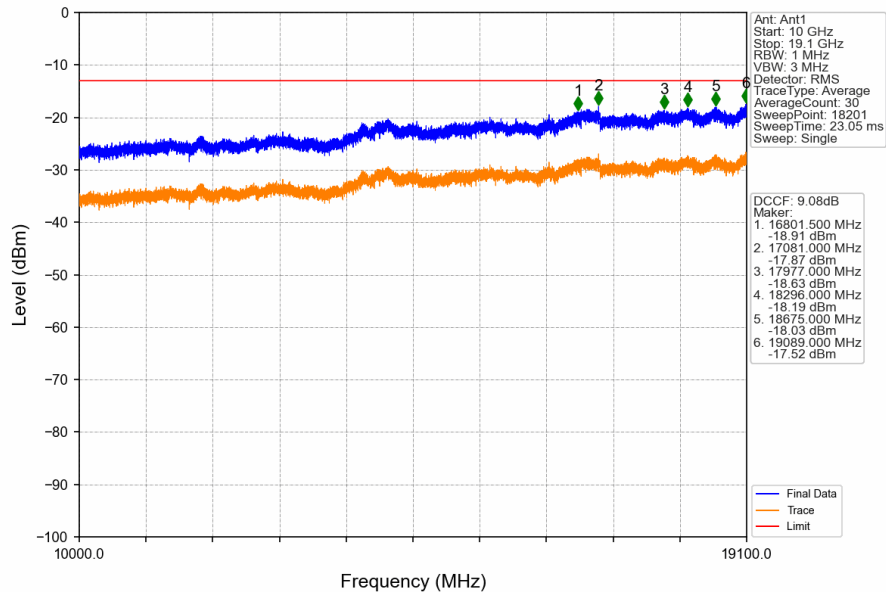
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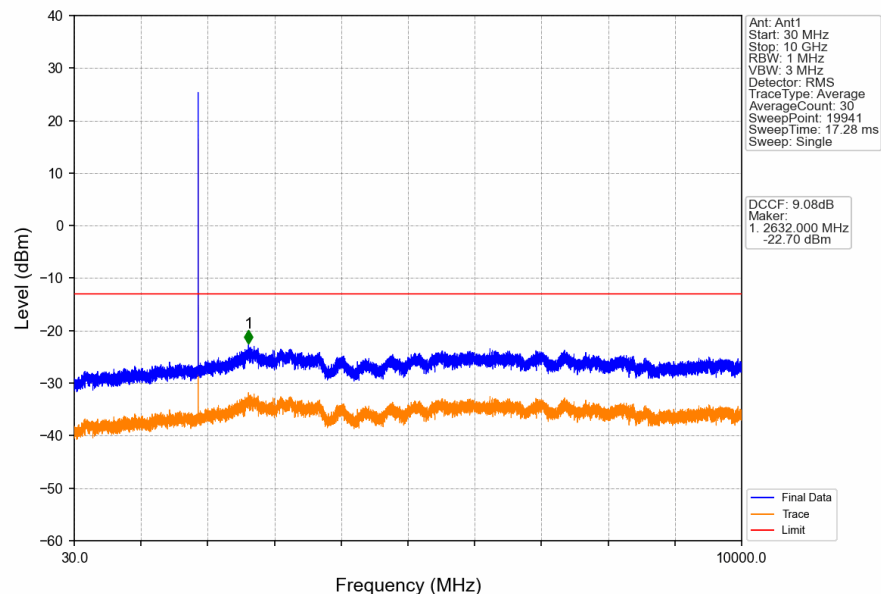
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PCS1900\_GSM\_LCH\_1850.2MHz\_GSM\_NTNV



PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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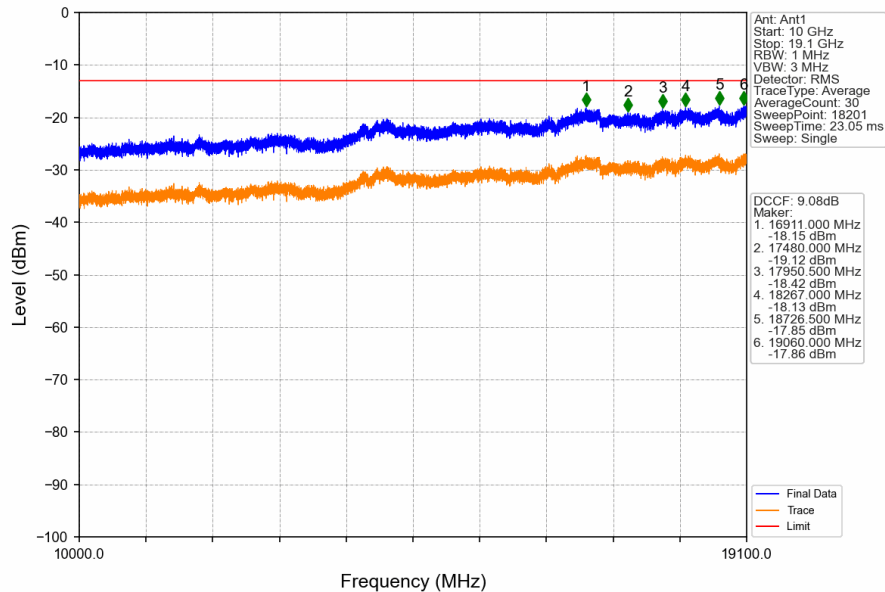
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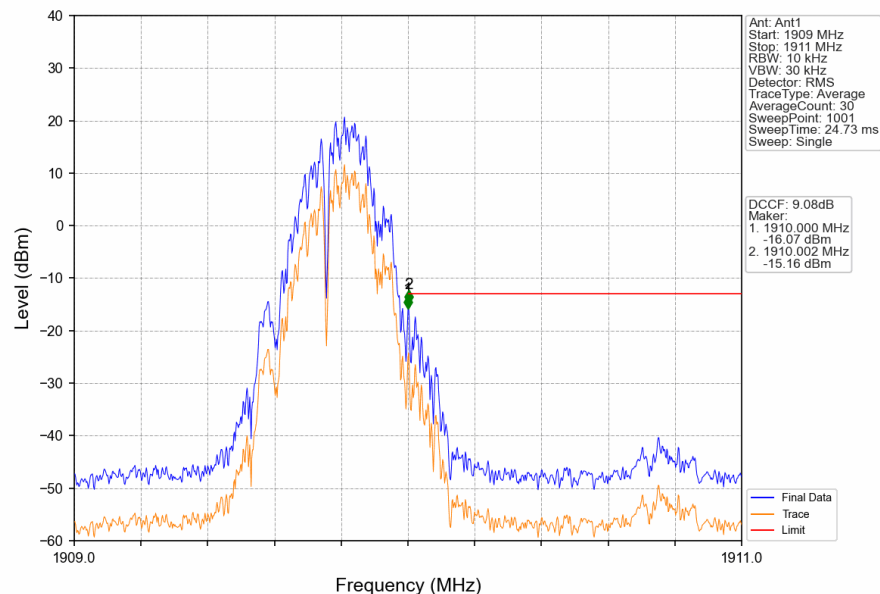
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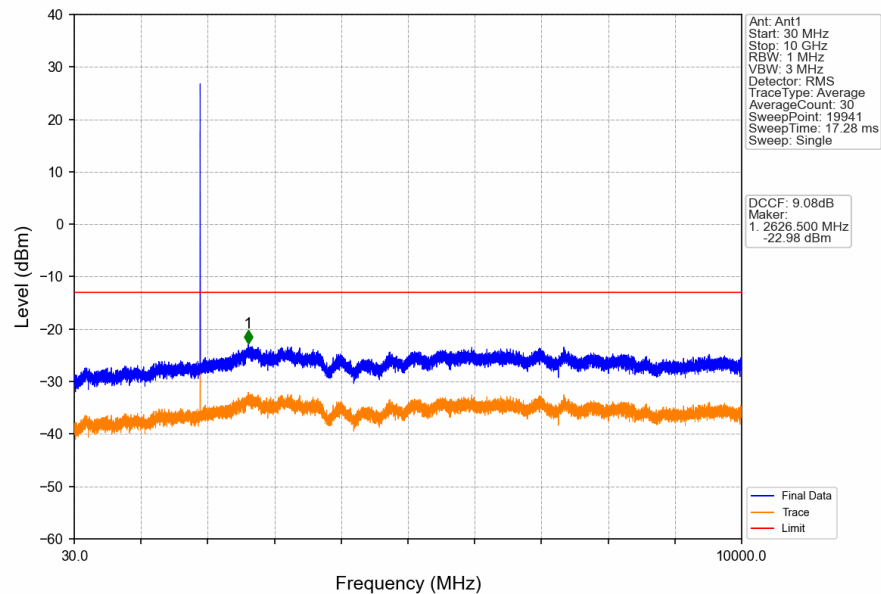
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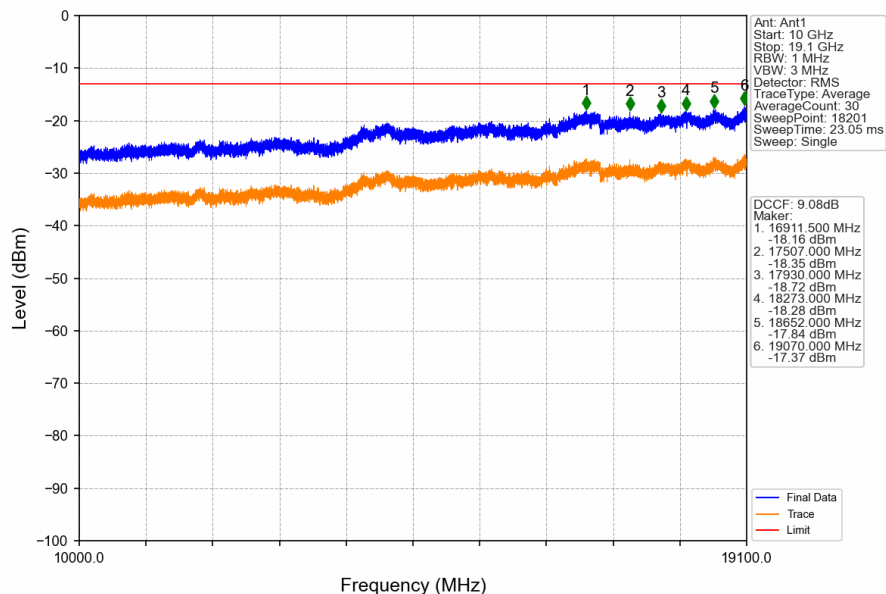
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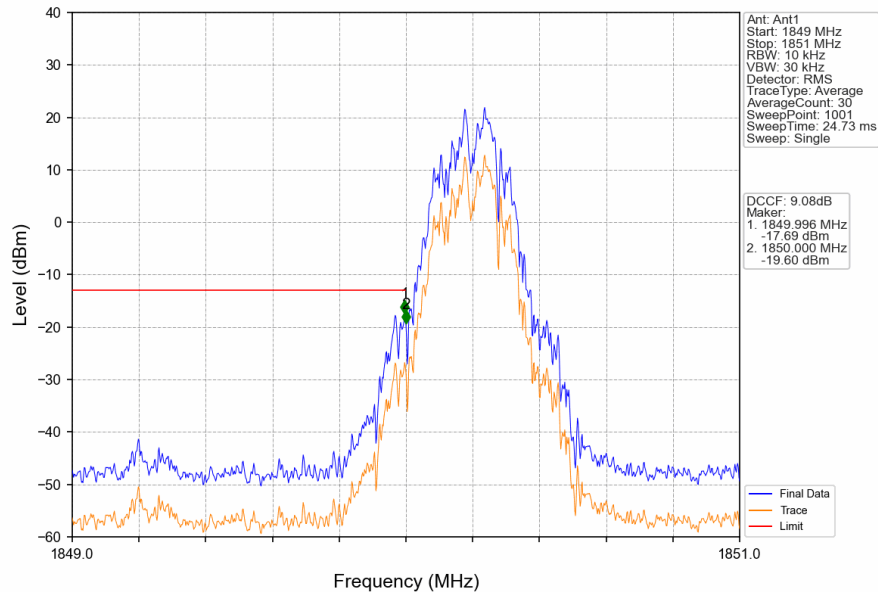
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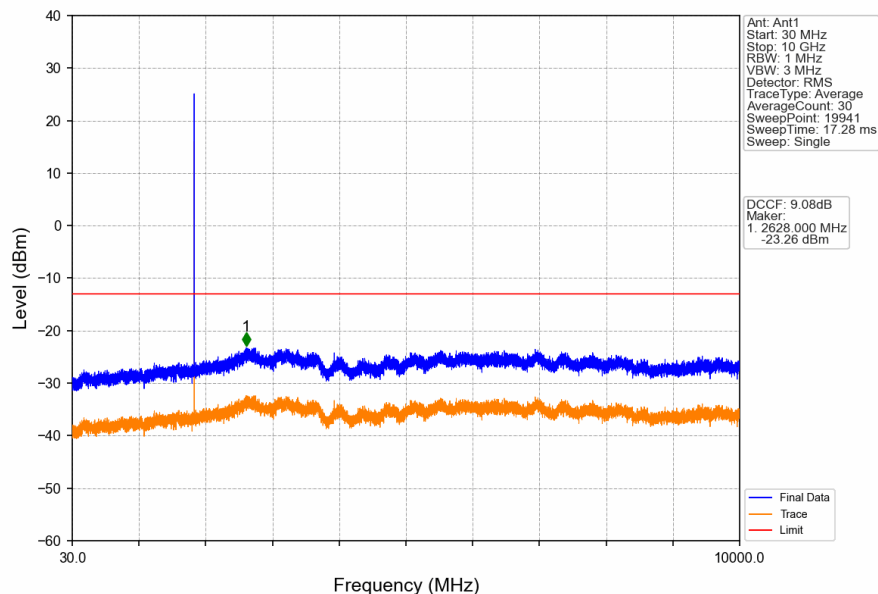
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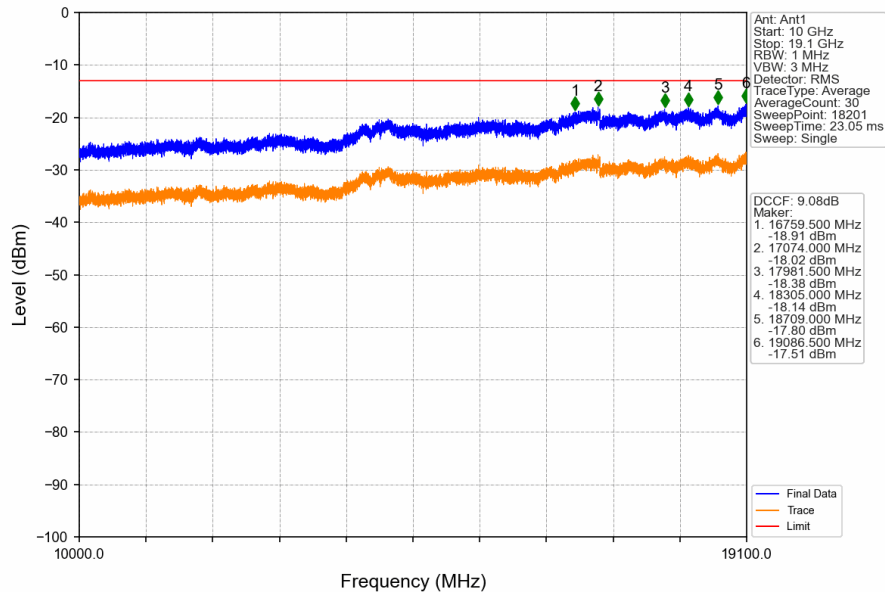
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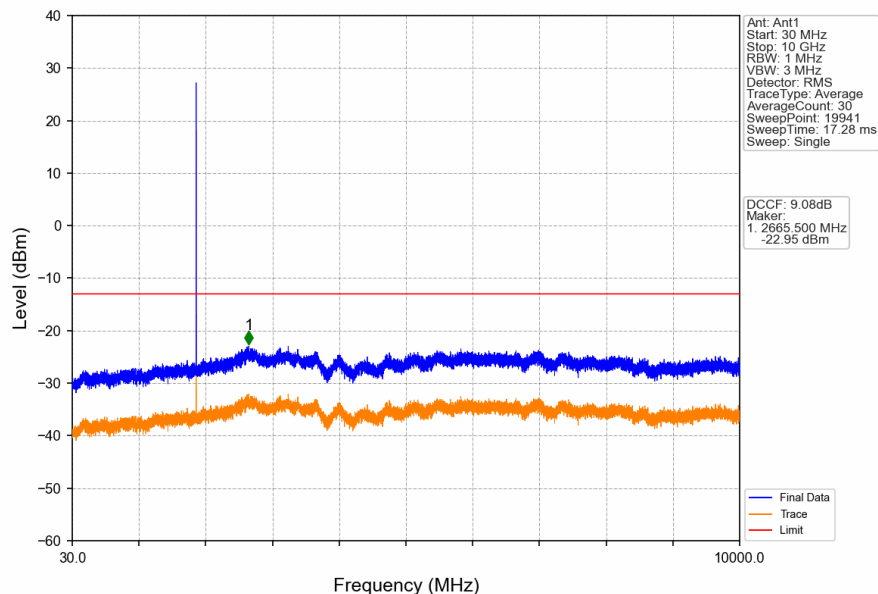
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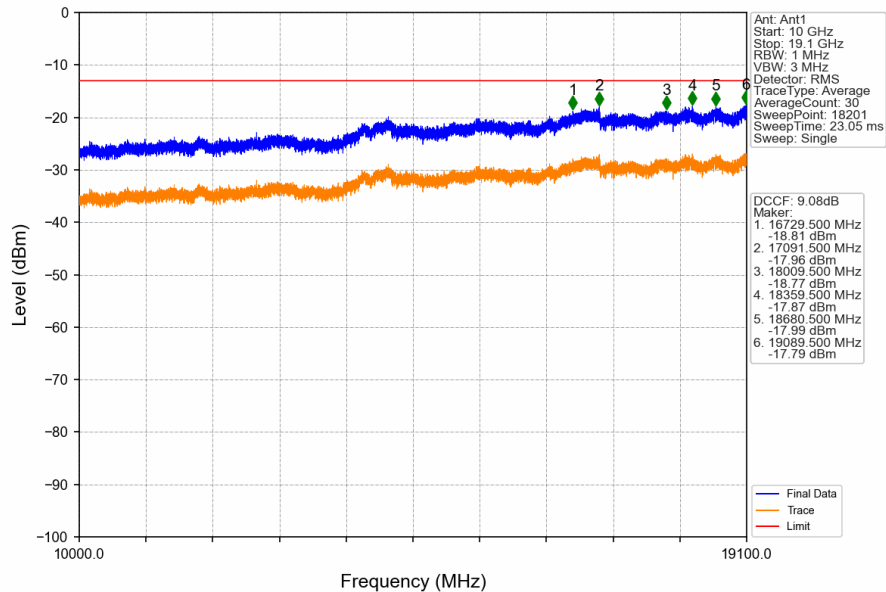
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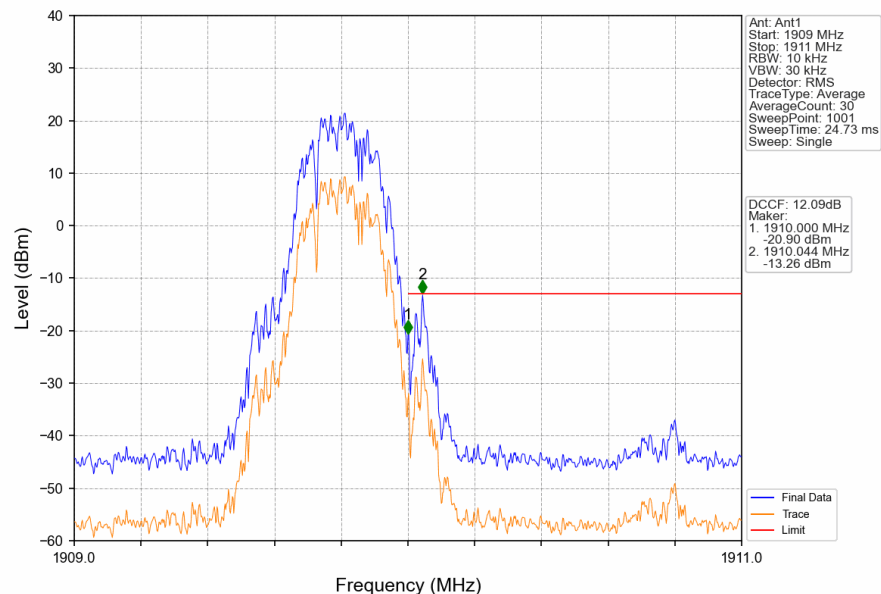
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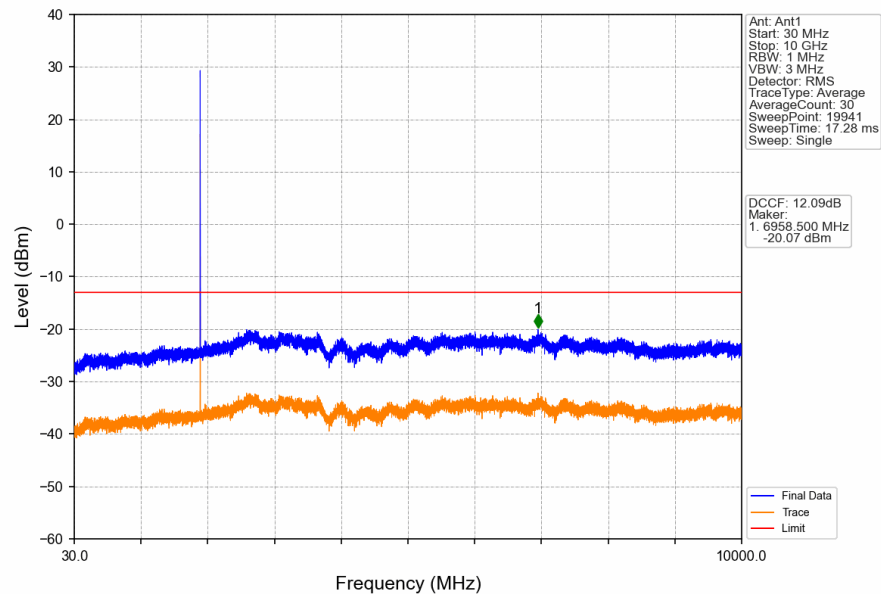
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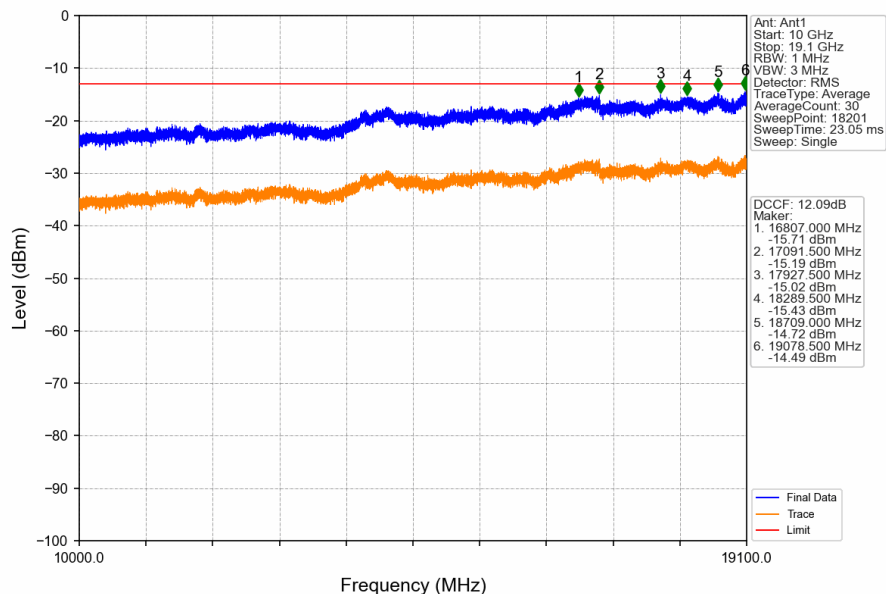
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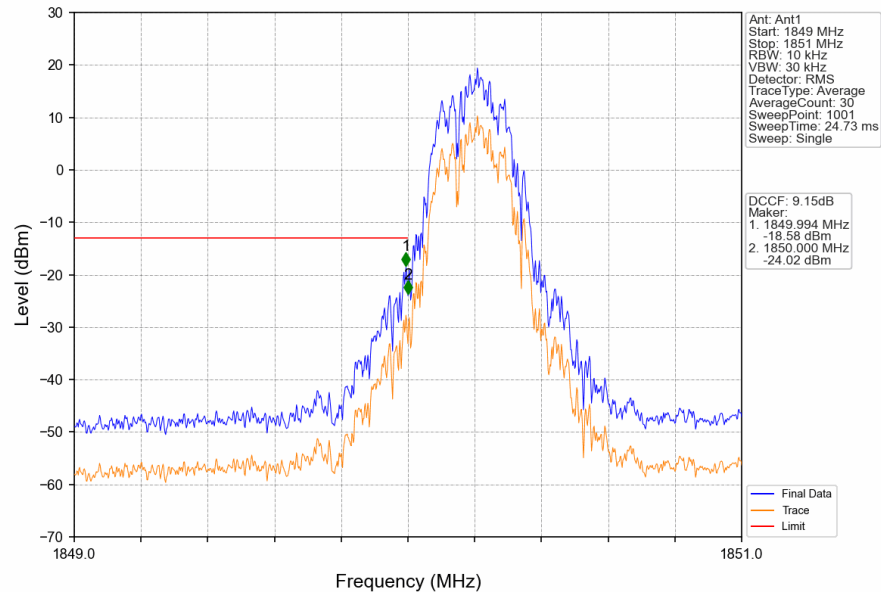
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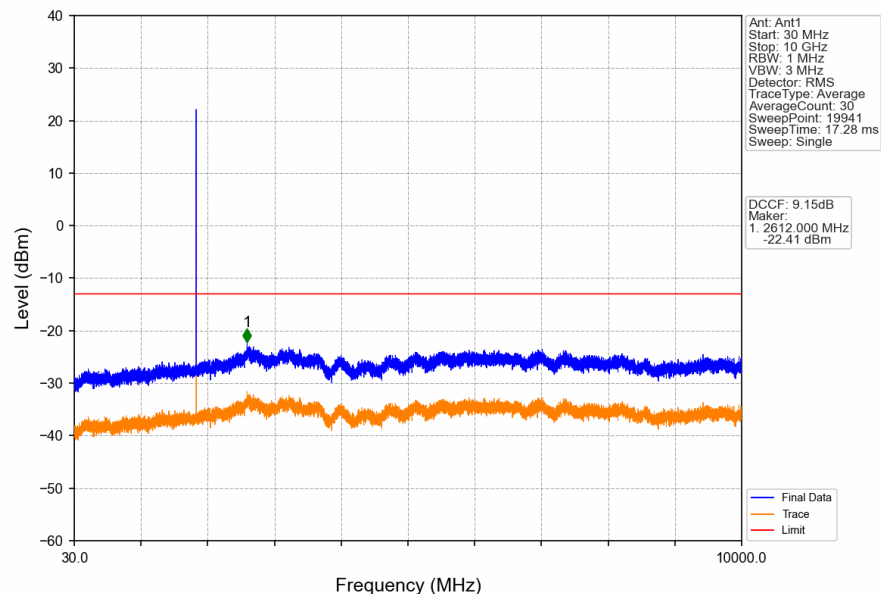
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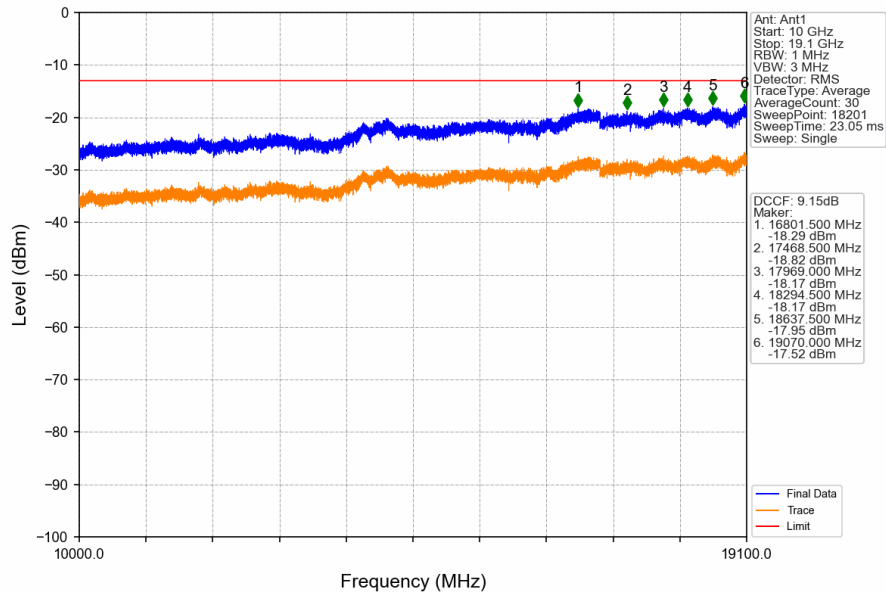
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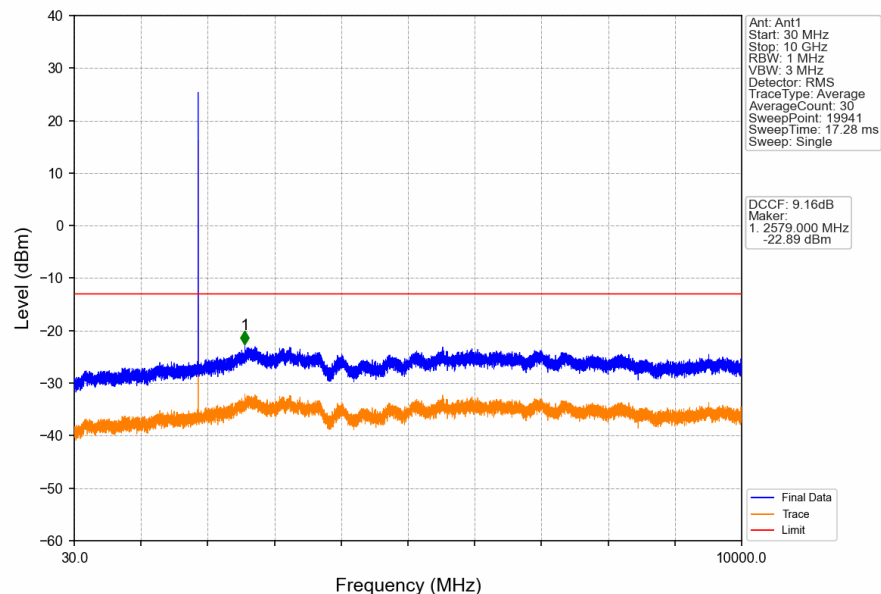
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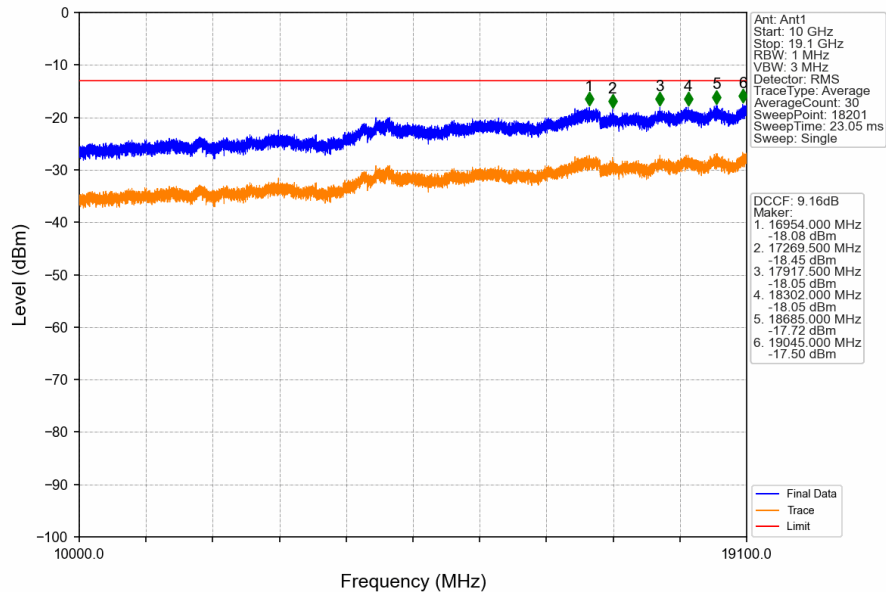
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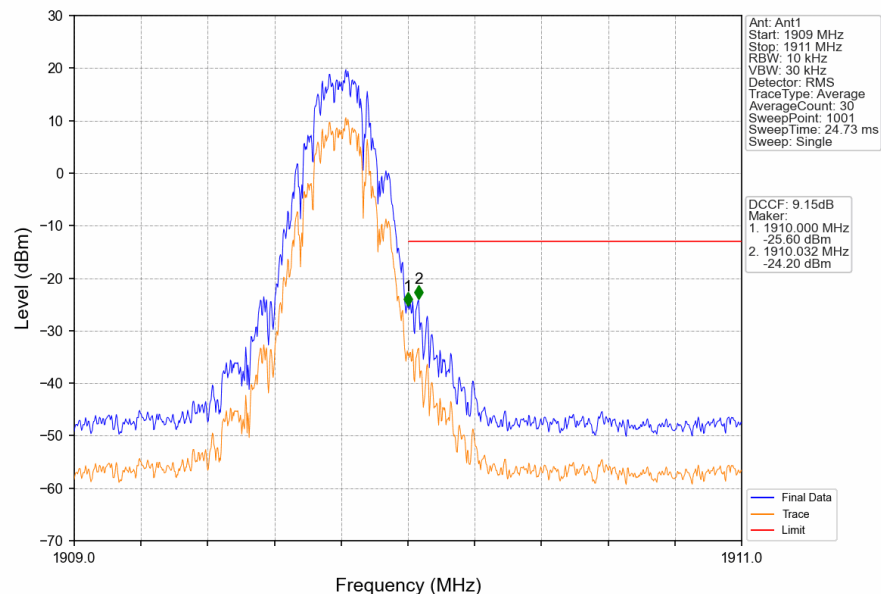
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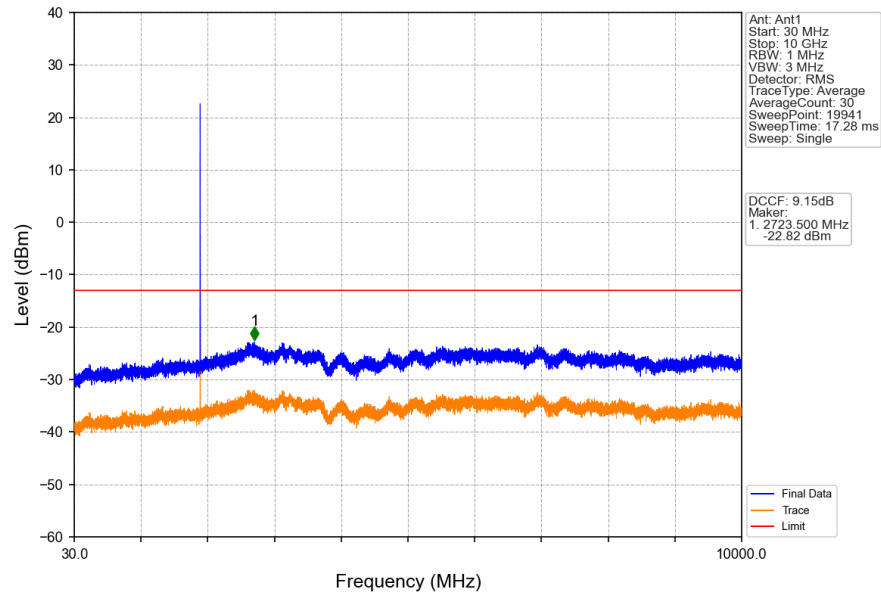
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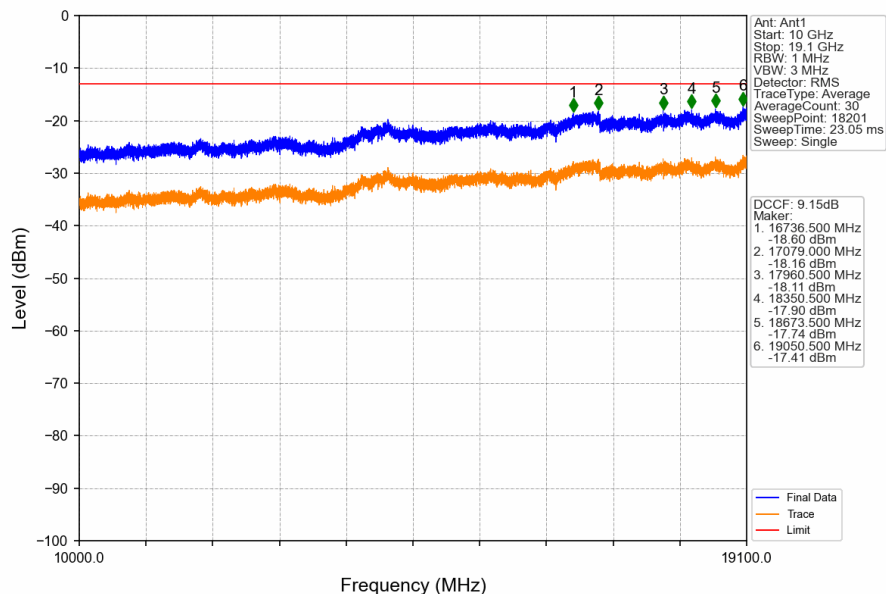
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## 6. Field Strength of Spurious Radiation

Test Band = GSM1900 \_ TM1

Test Channel = low

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3704.8	32.99	6.46	36.11	-64.07	-49.39	-13	-36.39	Horizontal
5557.2	34.7	7.86	35.11	-65.84	-47.4	-13	-34.4	Horizontal
7409.6	35.84	9.42	35.99	-63.26	-43.88	-13	-30.88	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3704.8	32.99	6.46	36.11	-65.14	-50.46	-13	-37.46	Vertical
5557.2	34.7	7.86	35.11	-64.21	-45.77	-13	-32.77	Vertical
7409.6	35.84	9.42	35.99	-62.95	-43.57	-13	-30.57	Vertical



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**Test Band = GSM1900 \_ TM1**  
**Test Channel = mid**

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3760	32.8	6.52	36.11	-64.58	-50.01	-13	-37.01	Horizontal
5640	34.46	7.92	35.07	-64.47	-46.44	-13	-33.44	Horizontal
7520	36.1	9.55	36.1	-62.08	-42.54	-13	-29.54	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3760	32.8	6.52	36.11	-64.42	-49.85	-13	-36.85	Vertical
5640	34.46	7.92	35.07	-64.72	-46.69	-13	-33.69	Vertical
7520	36.1	9.55	36.1	-63.85	-44.31	-13	-31.31	Vertical



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**Test Band = GSM1900 \_ TM1**  
**Test Channel = high**

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3815.2	32.61	6.58	36.11	-64.59	-50.13	-13	-37.13	Horizontal
5722.8	34.25	7.98	35.03	-65.75	-48.09	-13	-35.09	Horizontal
7630.4	36.2	9.68	36.21	-64.54	-44.74	-13	-31.74	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamplifier_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
3815.2	32.61	6.58	36.11	-63.21	-48.75	-13	-35.75	Vertical
5722.8	34.25	7.98	35.03	-66.38	-48.72	-13	-35.72	Vertical
7630.4	36.2	9.68	36.21	-63.5	-43.7	-13	-30.7	Vertical

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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