



Report No.: SZCR240400116001

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# Appendix B.2

## PCS1900



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Shenzhen Branch, Inspection & Testing Services Co., Ltd. Wireless Laboratory

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

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### 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	28.89	-2.21	26.68	<=33.01	Pass	
			1880	29.35	-2.21	27.14	<=33.01	Pass	
			1909.8	29.41	-2.21	27.20	<=33.01	Pass	
	GPRS	1 TX Slot	1850.2	29.09	-2.21	26.88	<=33.01	Pass	
			2 TX Slots	1850.2	27.12	-2.21	24.91	<=33.01	Pass
			3 TX Slots	1850.2	25.44	-2.21	23.23	<=33.01	Pass
			4 TX Slots	1850.2	23.63	-2.21	21.42	<=33.01	Pass
		2 TX Slots	1880	29.27	-2.21	27.06	<=33.01	Pass	
			1880	27.23	-2.21	25.02	<=33.01	Pass	
			1880	25.50	-2.21	23.29	<=33.01	Pass	
			1880	23.73	-2.21	21.52	<=33.01	Pass	
		3 TX Slots	1909.8	29.32	-2.21	27.11	<=33.01	Pass	
			1909.8	27.19	-2.21	24.98	<=33.01	Pass	
			1909.8	25.43	-2.21	23.22	<=33.01	Pass	
			1909.8	23.66	-2.21	21.45	<=33.01	Pass	
	EGPRS	1 TX Slot	1850.2	25.72	-2.21	23.51	<=33.01	Pass	
			1850.2	23.78	-2.21	21.57	<=33.01	Pass	
			1850.2	21.94	-2.21	19.73	<=33.01	Pass	
			1850.2	20.39	-2.21	18.18	<=33.01	Pass	
		2 TX Slots	1880	25.84	-2.21	23.63	<=33.01	Pass	
			1880	23.93	-2.21	21.72	<=33.01	Pass	
			1880	21.71	-2.21	19.50	<=33.01	Pass	
			1880	20.56	-2.21	18.35	<=33.01	Pass	
		3 TX Slots	1909.8	25.82	-2.21	23.61	<=33.01	Pass	
			1909.8	23.74	-2.21	21.53	<=33.01	Pass	
			1909.8	21.75	-2.21	19.54	<=33.01	Pass	
			1909.8	20.48	-2.21	18.27	<=33.01	Pass	



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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	3.7	11.227	0.0061	/	Pass
			3.91	14.199	0.0077	/	Pass
			4.4	8.846	0.0048	/	Pass
		-30	3.91	10.029	0.0054	/	Pass
		-20	3.91	10.520	0.0057	/	Pass
		-10	3.91	11.942	0.0065	/	Pass
		0	3.91	7.380	0.0040	/	Pass
		10	3.91	12.762	0.0069	/	Pass
		30	3.91	13.703	0.0074	/	Pass
		40	3.91	11.770	0.0064	/	Pass
	50	3.91	12.653	0.0068	/	Pass	
	1880	20	3.7	20.394	0.0108	/	Pass
			3.91	16.550	0.0088	/	Pass
			4.4	18.187	0.0097	/	Pass
		-30	3.91	18.526	0.0099	/	Pass
		-20	3.91	13.107	0.0070	/	Pass
		-10	3.91	18.912	0.0101	/	Pass
		0	3.91	14.611	0.0078	/	Pass
		10	3.91	17.128	0.0091	/	Pass
		30	3.91	17.834	0.0095	/	Pass
		40	3.91	17.002	0.0090	/	Pass
	50	3.91	13.153	0.0070	/	Pass	
	1909.8	20	3.7	11.280	0.0059	/	Pass
			3.91	14.577	0.0076	/	Pass
			4.4	11.147	0.0058	/	Pass
		-30	3.91	19.325	0.0101	/	Pass
		-20	3.91	21.052	0.0110	/	Pass
		-10	3.91	15.514	0.0081	/	Pass
		0	3.91	16.699	0.0087	/	Pass
		10	3.91	20.774	0.0109	/	Pass
30		3.91	16.749	0.0088	/	Pass	
40		3.91	12.666	0.0066	/	Pass	
50	3.91	17.884	0.0094	/	Pass		
GPRS	1850.2	20	3.7	35.939	0.0194	/	Pass
			3.91	33.555	0.0181	/	Pass



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			4.4	32.571	0.0176	/	Pass		
		-30	3.91	25.873	0.0140	/	Pass		
		-20	3.91	26.962	0.0146	/	Pass		
		-10	3.91	27.225	0.0147	/	Pass		
		0	3.91	26.858	0.0145	/	Pass		
		10	3.91	28.197	0.0152	/	Pass		
		30	3.91	25.774	0.0139	/	Pass		
		40	3.91	25.099	0.0136	/	Pass		
		50	3.91	25.506	0.0138	/	Pass		
	1880	20	3.7	29.808	0.0159	/	Pass		
				3.91	31.127	0.0166	/	Pass	
				4.4	30.325	0.0161	/	Pass	
			-30	3.91	31.447	0.0167	/	Pass	
			-20	3.91	30.917	0.0164	/	Pass	
			-10	3.91	30.270	0.0161	/	Pass	
			0	3.91	28.579	0.0152	/	Pass	
			10	3.91	33.077	0.0176	/	Pass	
			30	3.91	33.247	0.0177	/	Pass	
			40	3.91	30.062	0.0160	/	Pass	
		50	3.91	30.045	0.0160	/	Pass		
	1909.8	20	3.7	32.463	0.0170	/	Pass		
				3.91	32.448	0.0170	/	Pass	
				4.4	32.321	0.0169	/	Pass	
			-30	3.91	33.305	0.0174	/	Pass	
			-20	3.91	28.392	0.0149	/	Pass	
			-10	3.91	30.008	0.0157	/	Pass	
			0	3.91	31.388	0.0164	/	Pass	
			10	3.91	30.090	0.0158	/	Pass	
			30	3.91	29.139	0.0153	/	Pass	
			40	3.91	29.558	0.0155	/	Pass	
		50	3.91	28.638	0.0150	/	Pass		
EGPRS	1850.2	20	3.7	23.606	0.0128	/	Pass		
				3.91	20.330	0.0110	/	Pass	
				4.4	22.312	0.0121	/	Pass	
				-30	3.91	23.166	0.0125	/	Pass
				-20	3.91	23.283	0.0126	/	Pass
				-10	3.91	21.163	0.0114	/	Pass
				0	3.91	20.739	0.0112	/	Pass
				10	3.91	18.729	0.0101	/	Pass
				30	3.91	20.221	0.0109	/	Pass
				40	3.91	18.926	0.0102	/	Pass
			50	3.91	20.674	0.0112	/	Pass	
		1880	20	3.7	20.527	0.0109	/	Pass	
					3.91	25.670	0.0137	/	Pass
					4.4	24.587	0.0131	/	Pass
				-30	3.91	28.577	0.0152	/	Pass
				-20	3.91	28.467	0.0151	/	Pass
				-10	3.91	27.427	0.0146	/	Pass



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		0	3.91	26.882	0.0143	/	Pass
		10	3.91	26.914	0.0143	/	Pass
		30	3.91	25.810	0.0137	/	Pass
		40	3.91	28.515	0.0152	/	Pass
		50	3.91	26.958	0.0143	/	Pass
	1909.8	20	3.7	28.034	0.0147	/	Pass
			3.91	22.584	0.0118	/	Pass
			4.4	23.123	0.0121	/	Pass
		-30	3.91	23.833	0.0125	/	Pass
		-20	3.91	22.151	0.0116	/	Pass
		-10	3.91	22.673	0.0119	/	Pass
		0	3.91	23.161	0.0121	/	Pass
		10	3.91	23.113	0.0121	/	Pass
		30	3.91	23.394	0.0122	/	Pass
		40	3.91	22.805	0.0119	/	Pass
		50	3.91	22.919	0.0120	/	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	0.243	/	Pass
			1880	0.242	/	Pass
			1909.8	0.245	/	Pass
	GPRS	1 TX Slot	1850.2	0.241	/	Pass
			1880	0.241	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.243	/	Pass
			1880	0.237	/	Pass
			1909.8	0.236	/	Pass



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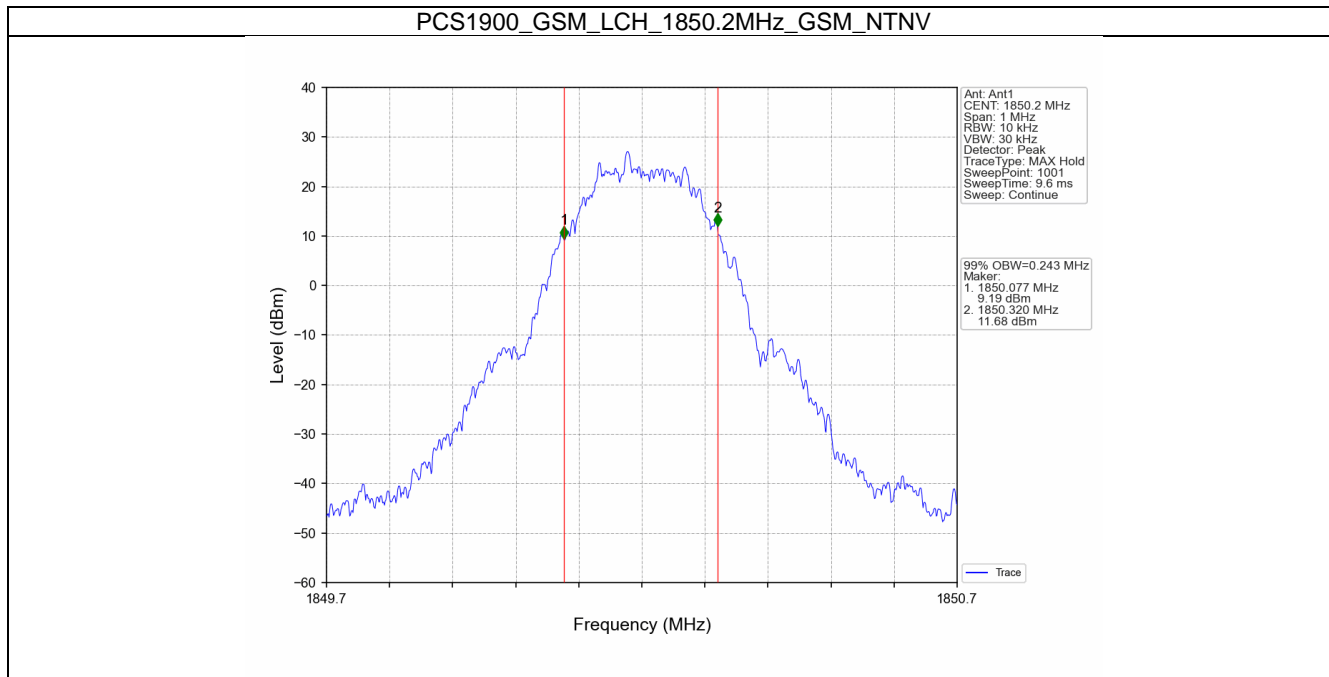
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3.1.2 Test Graph



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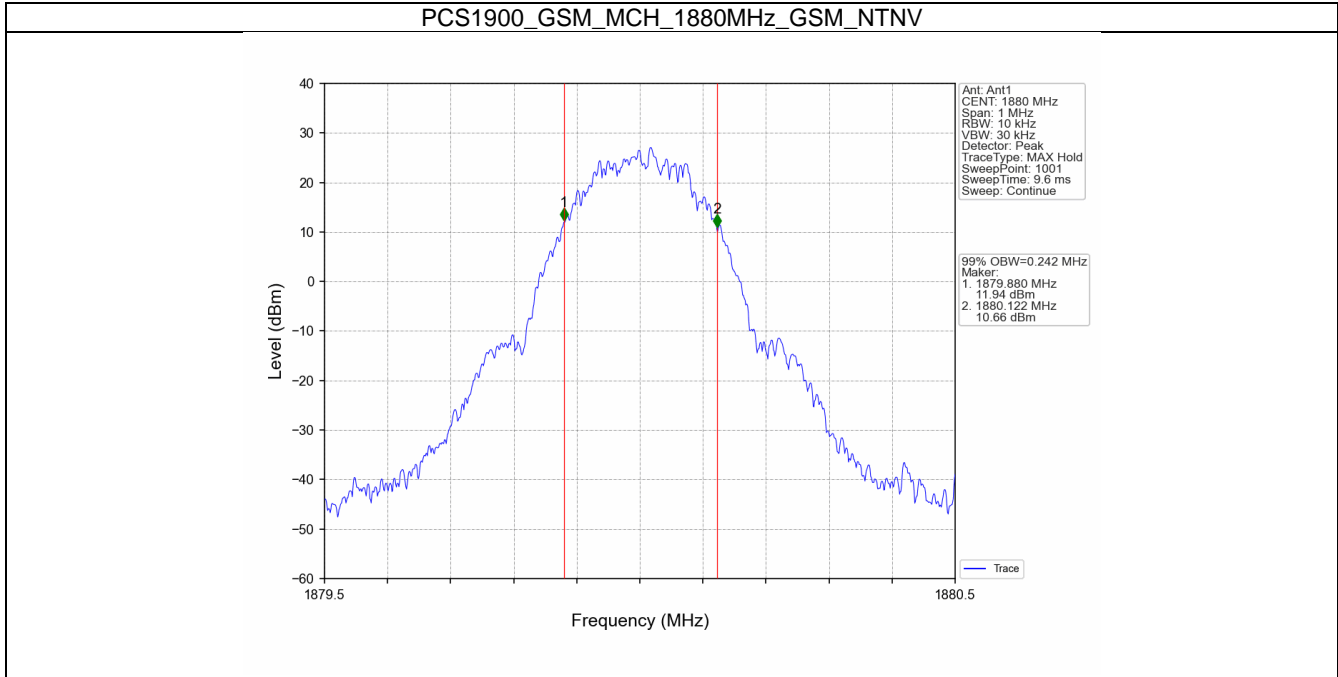


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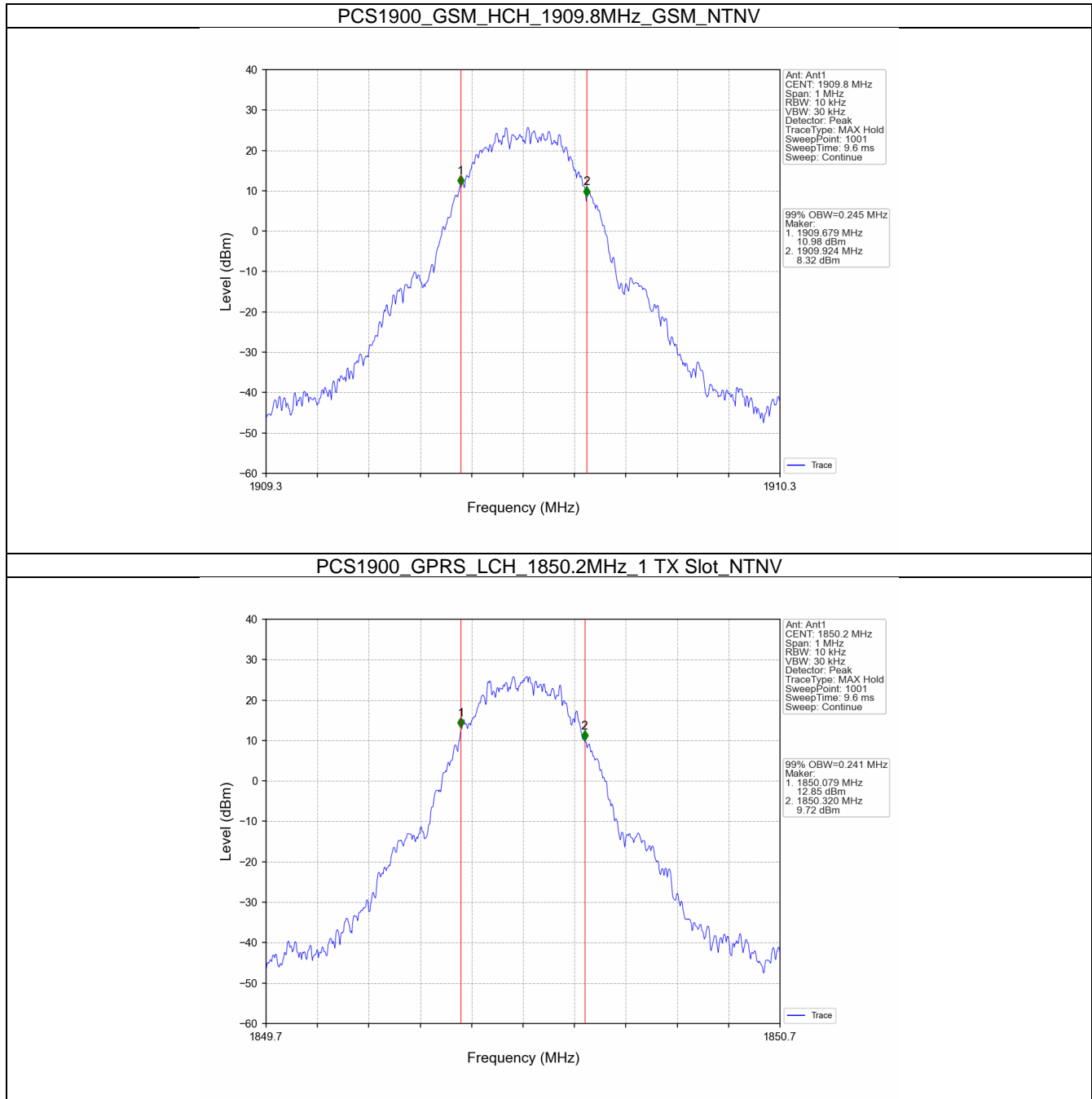


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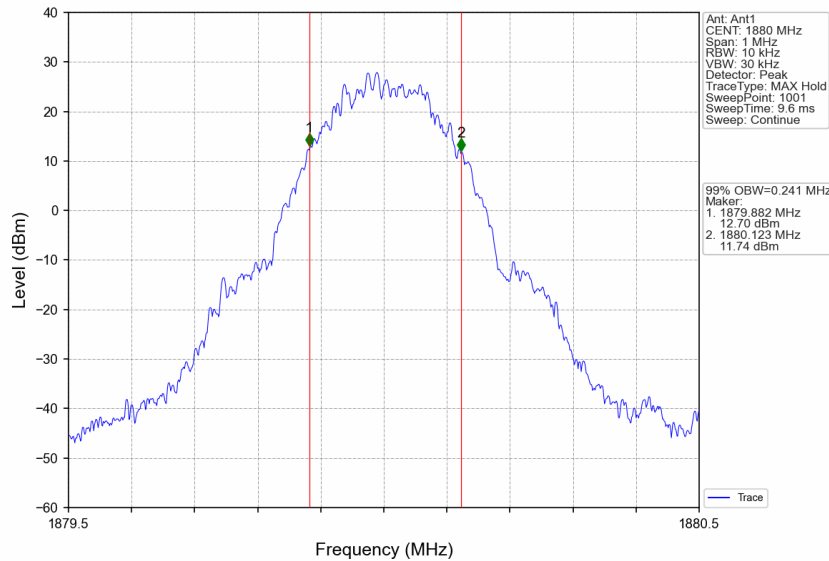
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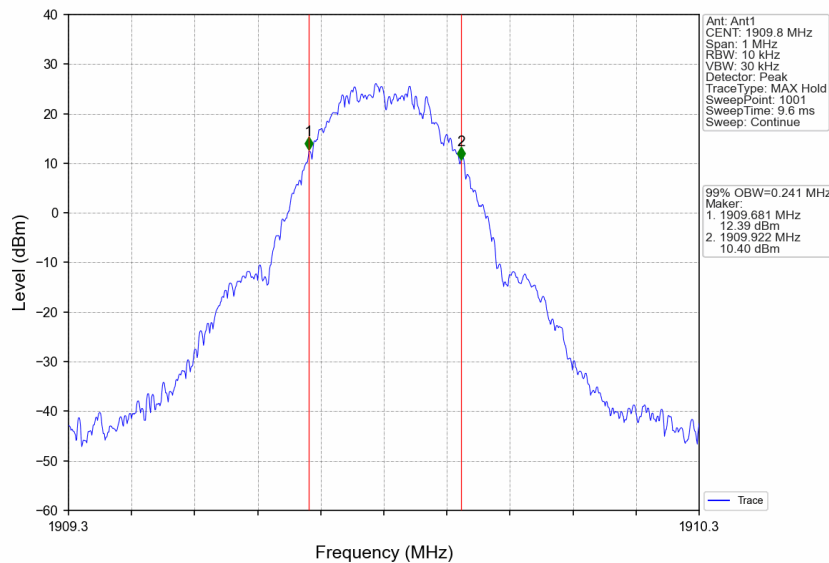
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PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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



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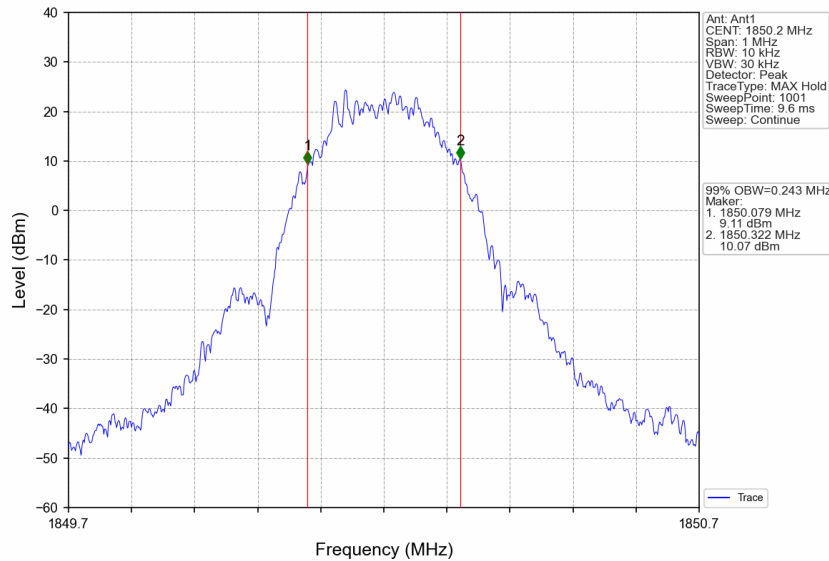
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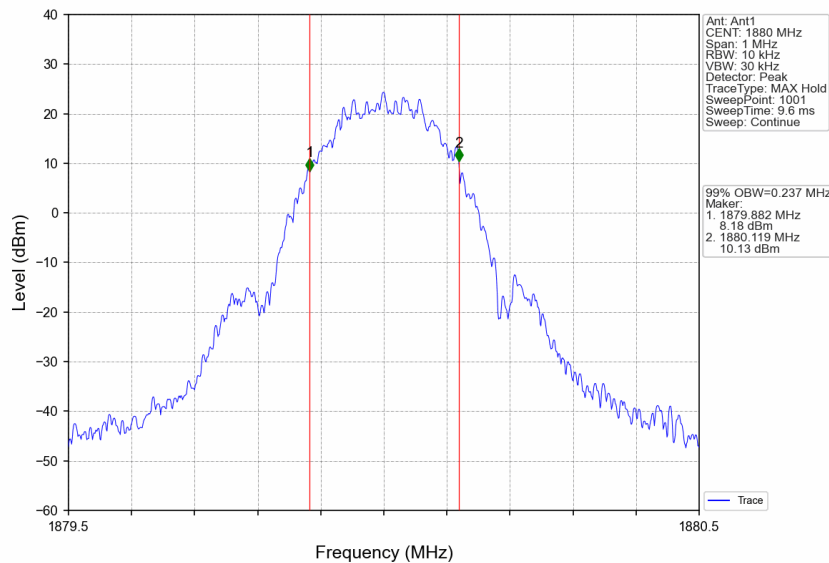
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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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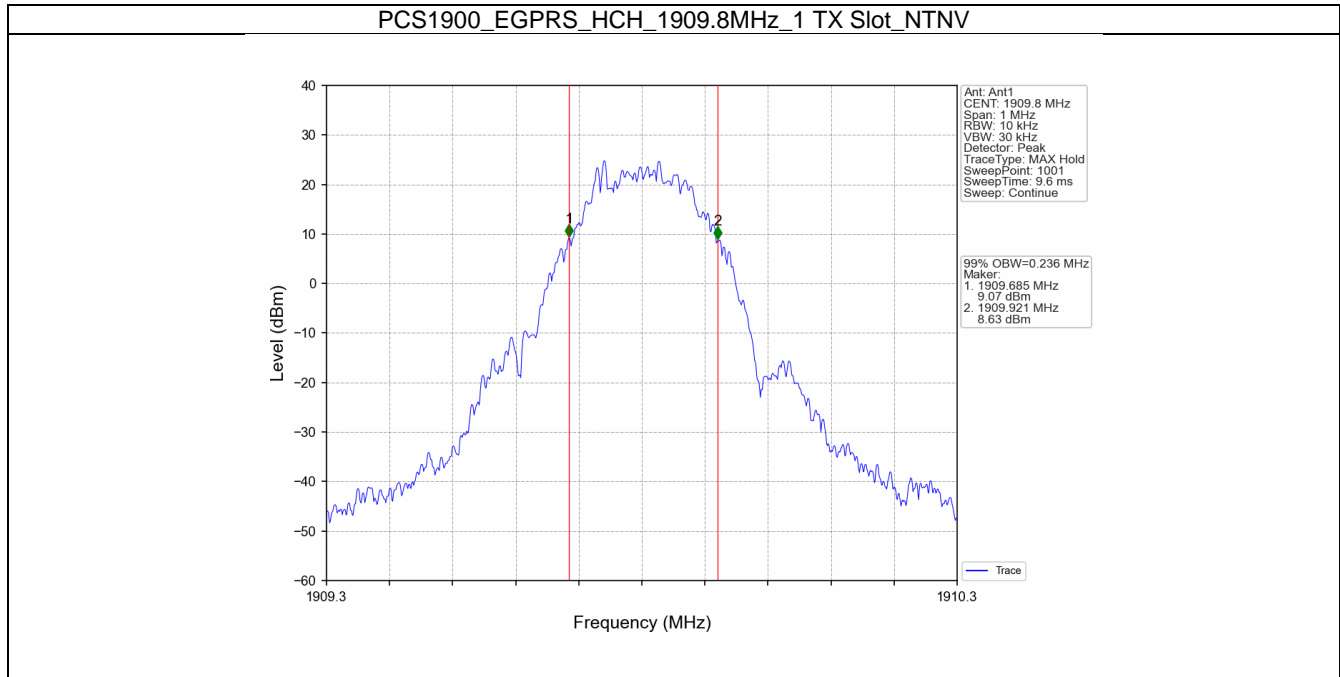


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## 3.2 PCS1900\_XDB

### 3.2.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.306	/	Pass
			1880	0.315	/	Pass
			1909.8	0.318	/	Pass
	GPRS	1 TX Slot	1850.2	0.320	/	Pass
			1880	0.306	/	Pass
			1909.8	0.312	/	Pass
	EGPRS	1 TX Slot	1850.2	0.312	/	Pass
			1880	0.306	/	Pass
			1909.8	0.304	/	Pass



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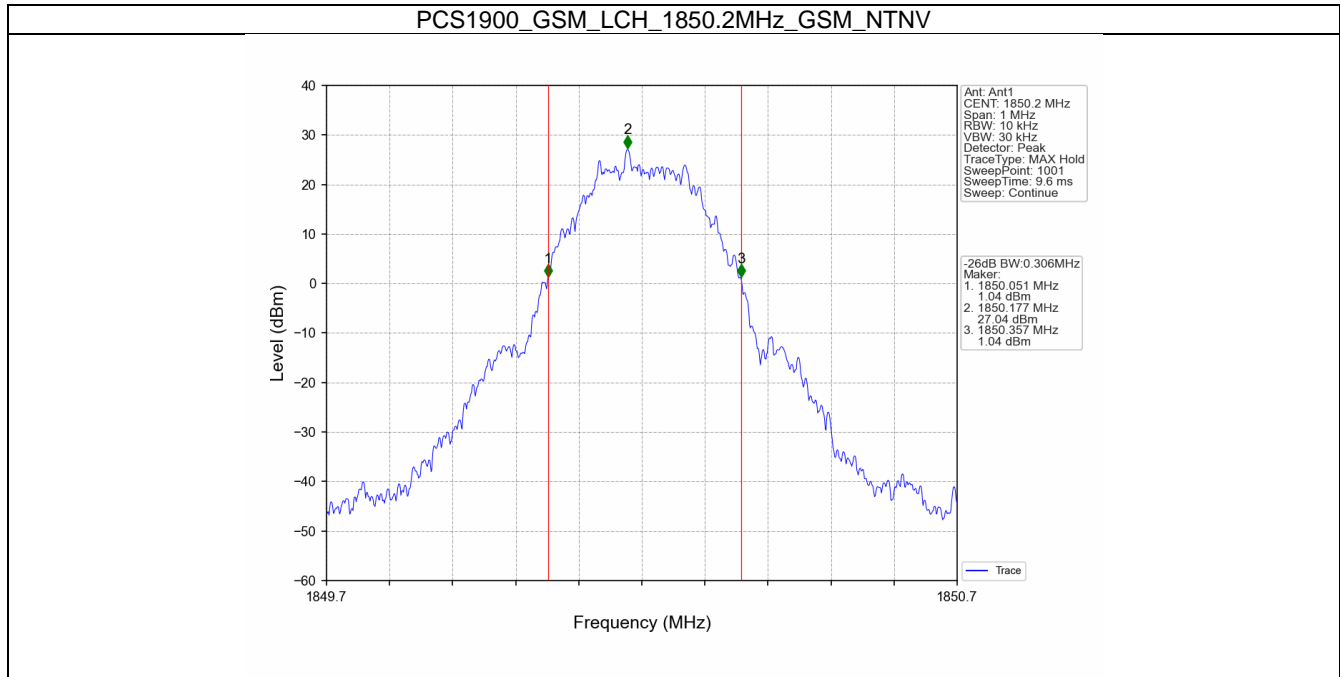
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## 3.2.2 Test Graph



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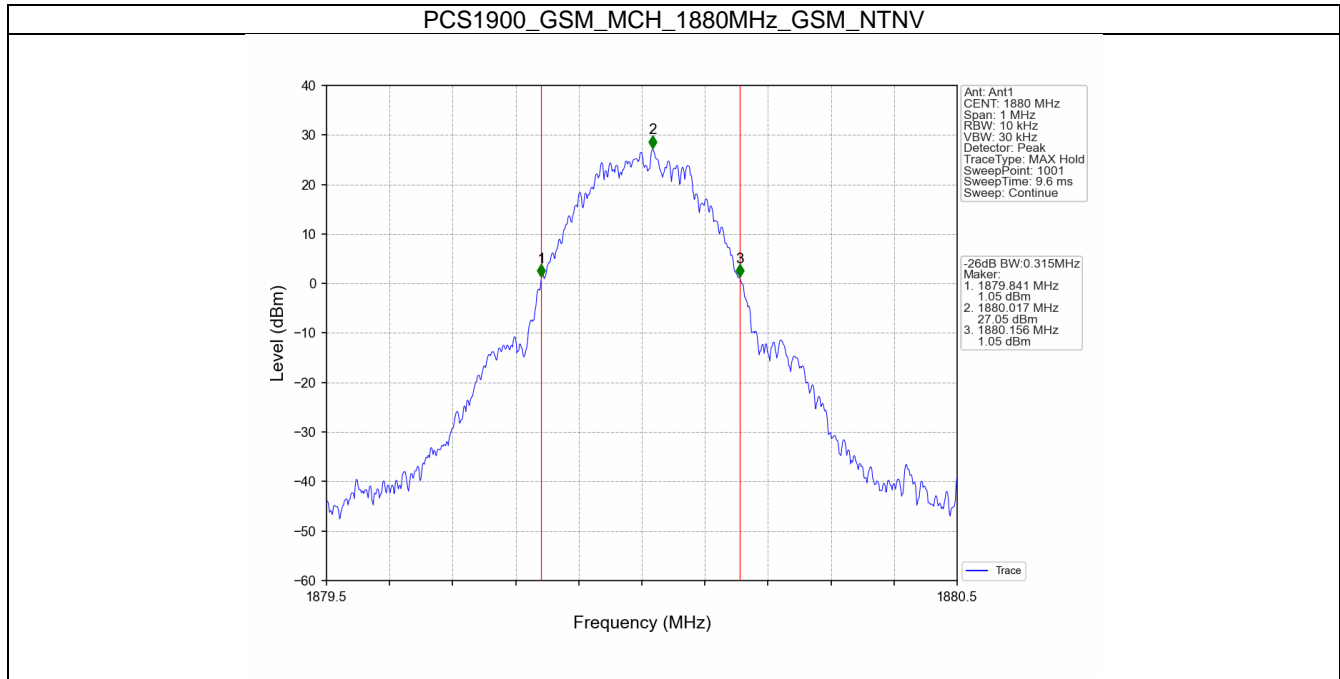


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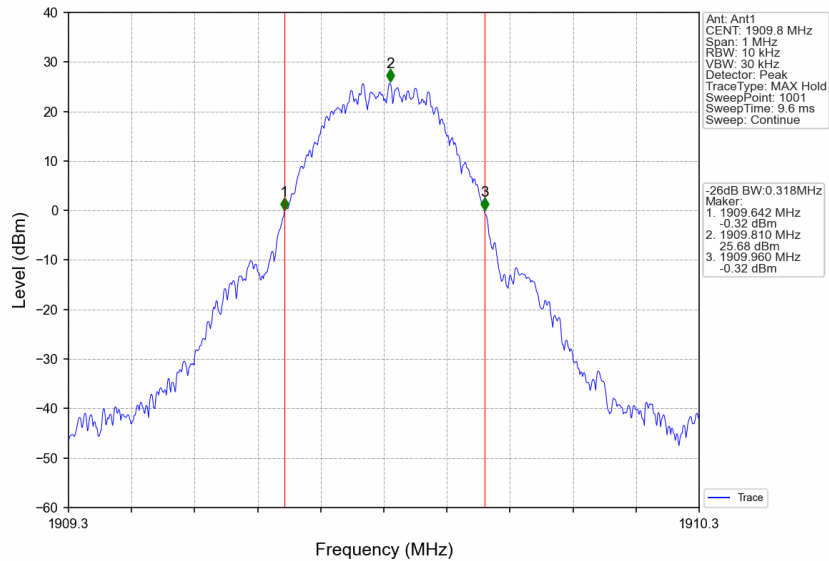
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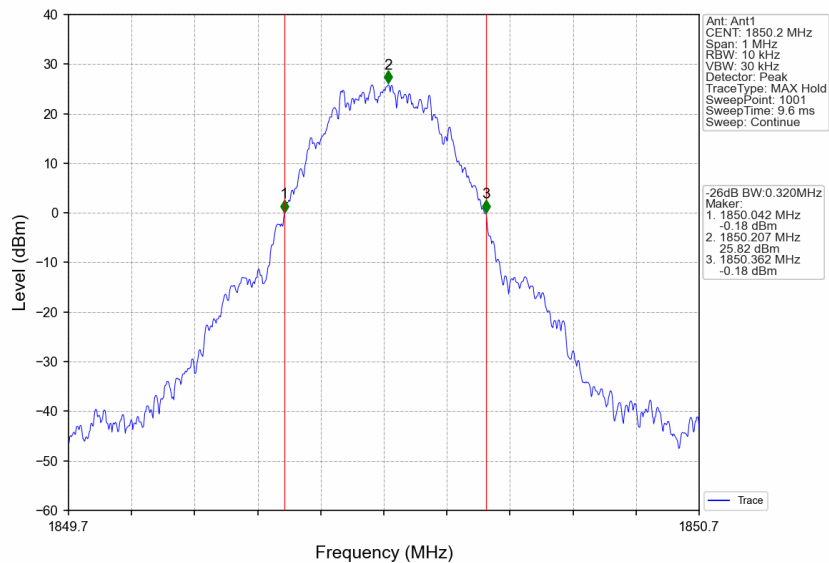
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



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



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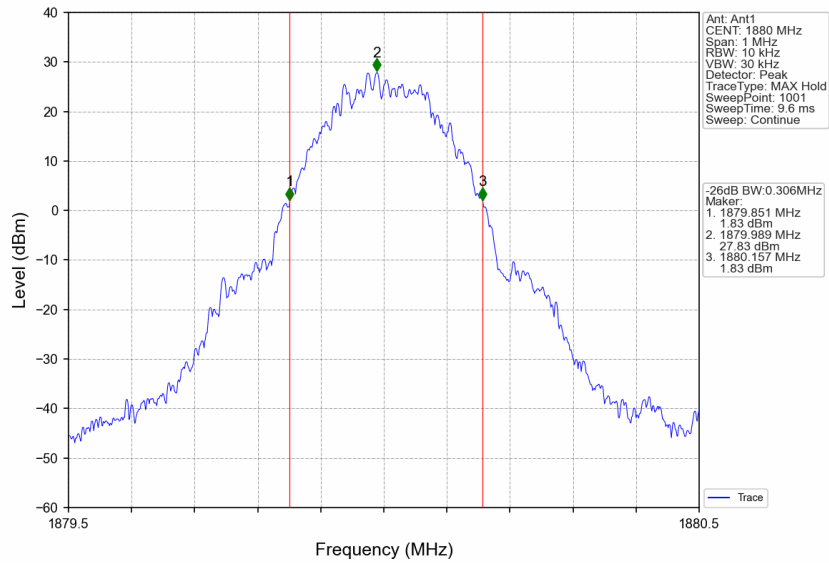
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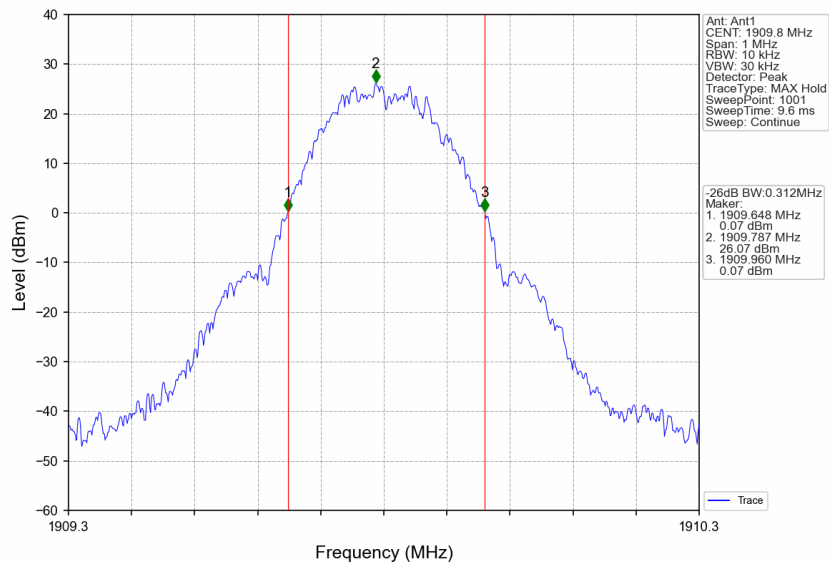
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PCS1900\_GPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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



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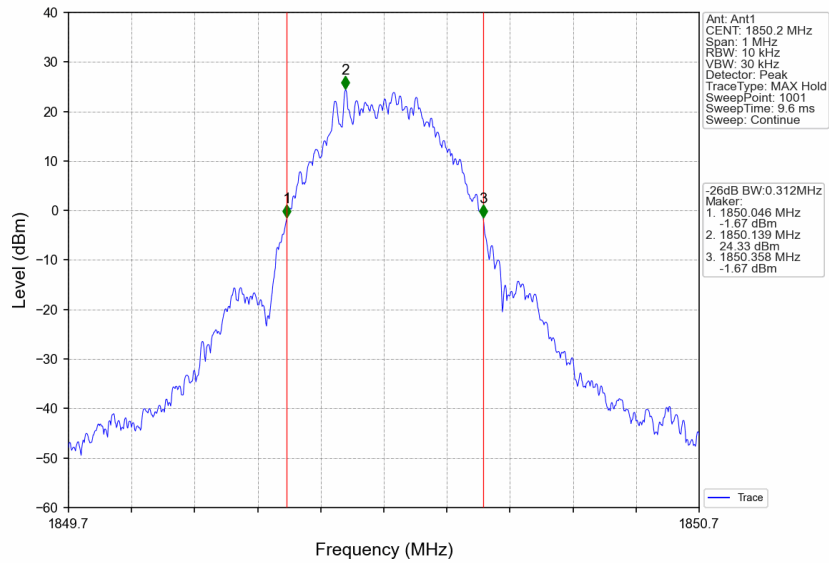
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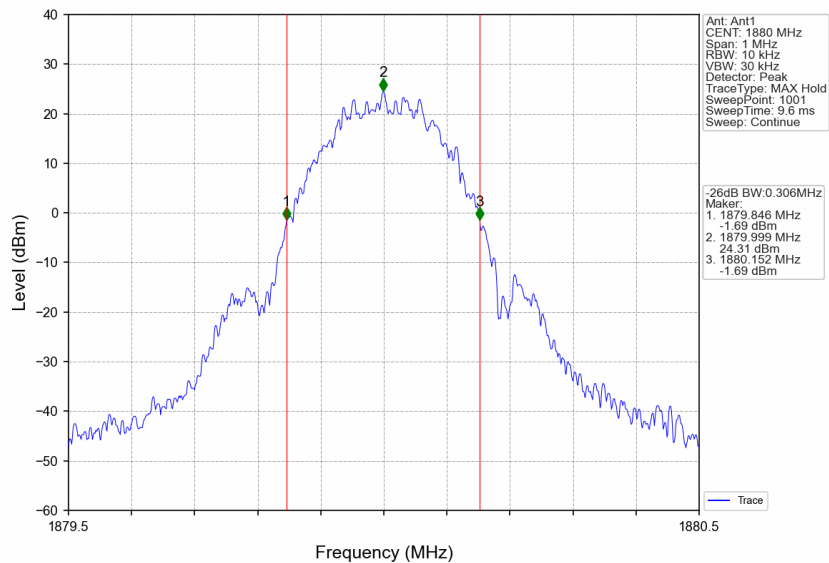
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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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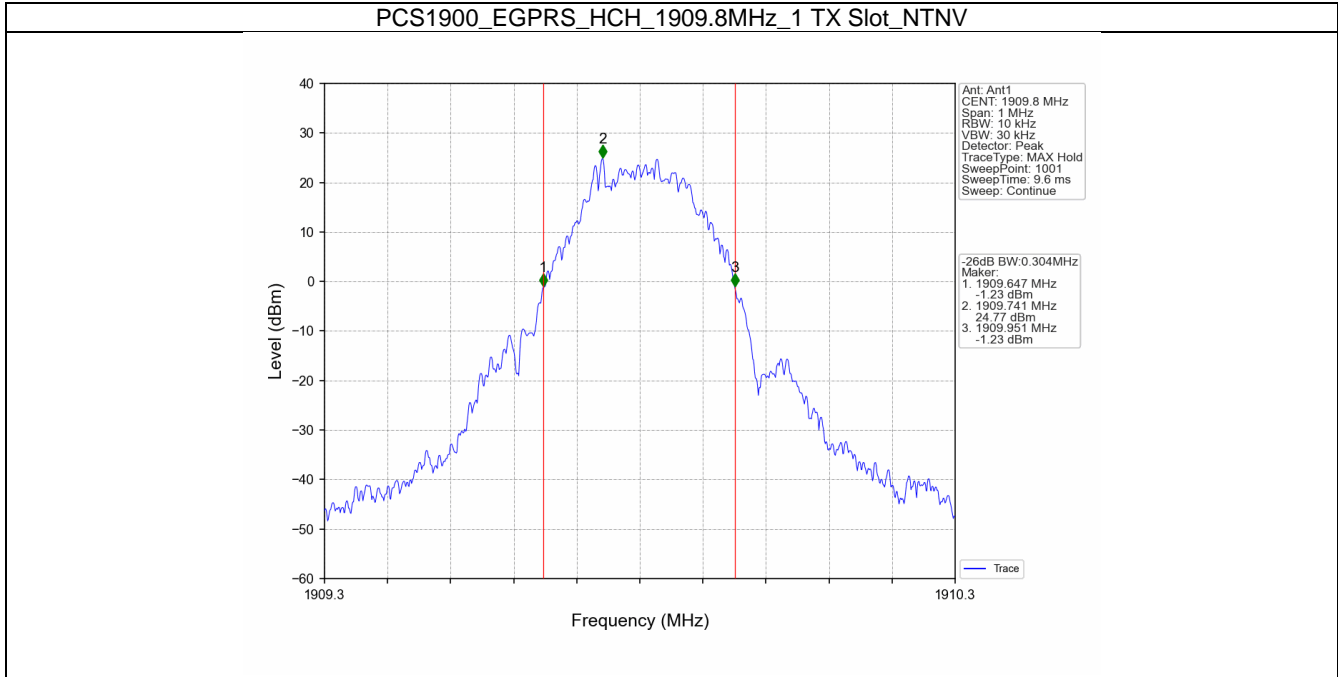


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## 4. Peak-Average Ratio

### 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	9.74	<=13	Pass
			1880	9.58	<=13	Pass
			1909.8	9.57	<=13	Pass
	GPRS	4 TX Slots	1850.2	3.85	<=13	Pass
			1880	3.66	<=13	Pass
			1909.8	3.74	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.23	<=13	Pass
			1880	6.89	<=13	Pass
			1909.8	6.98	<=13	Pass



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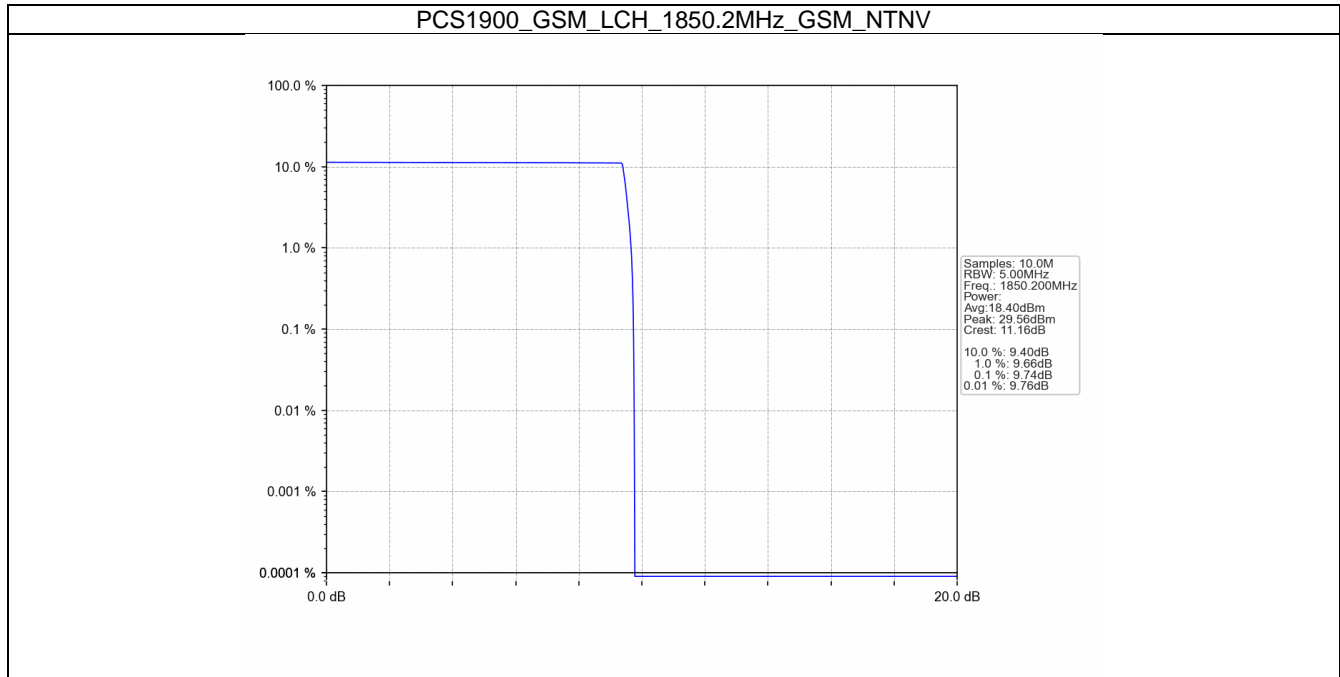
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4.1.2 Test Graph



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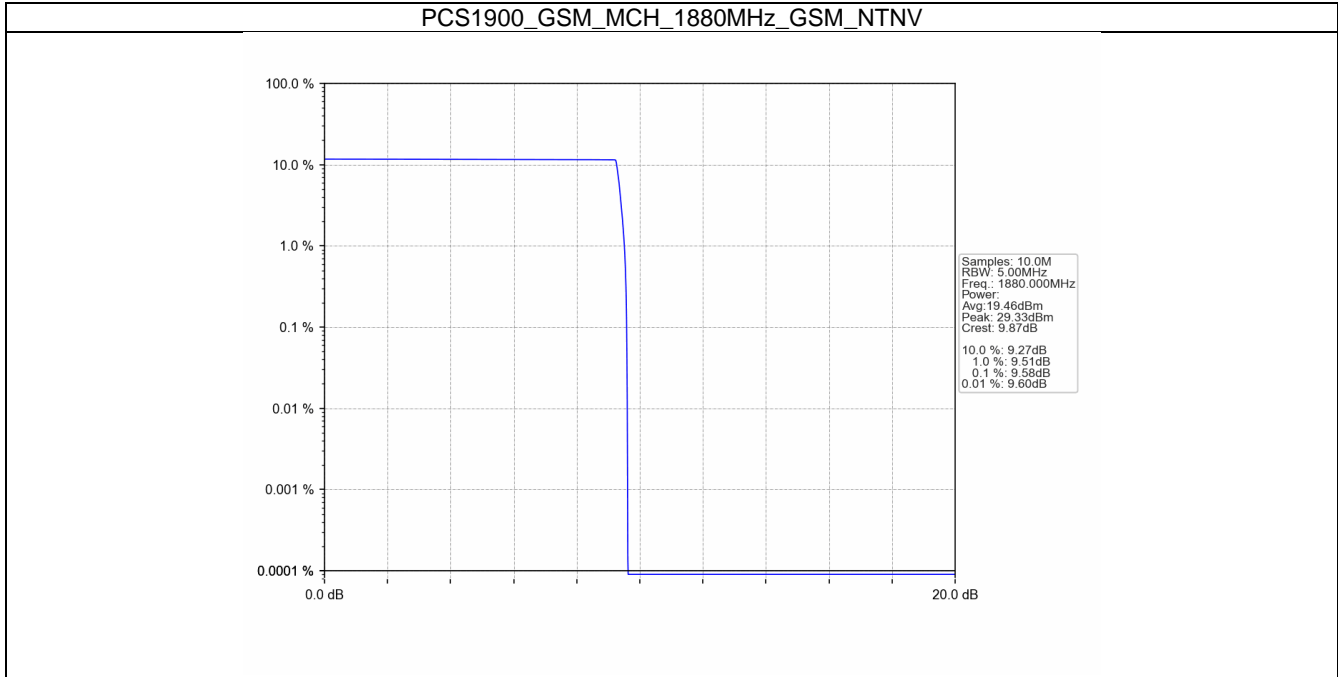


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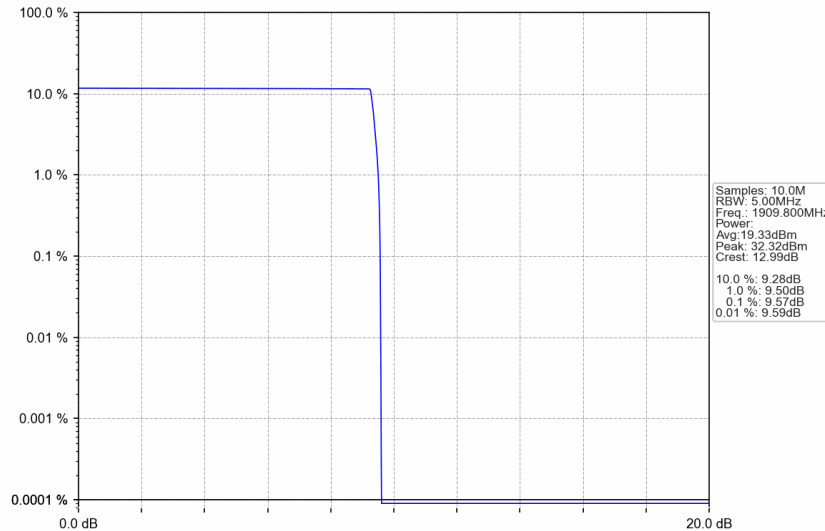
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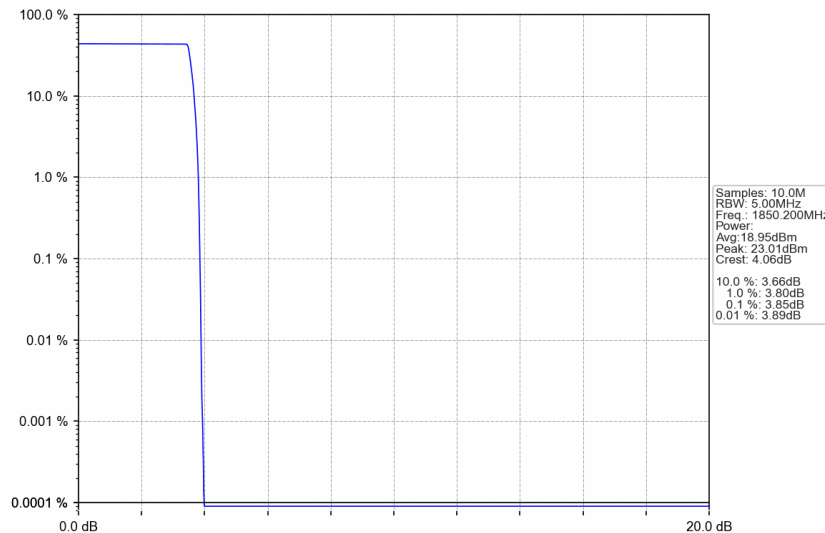
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



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



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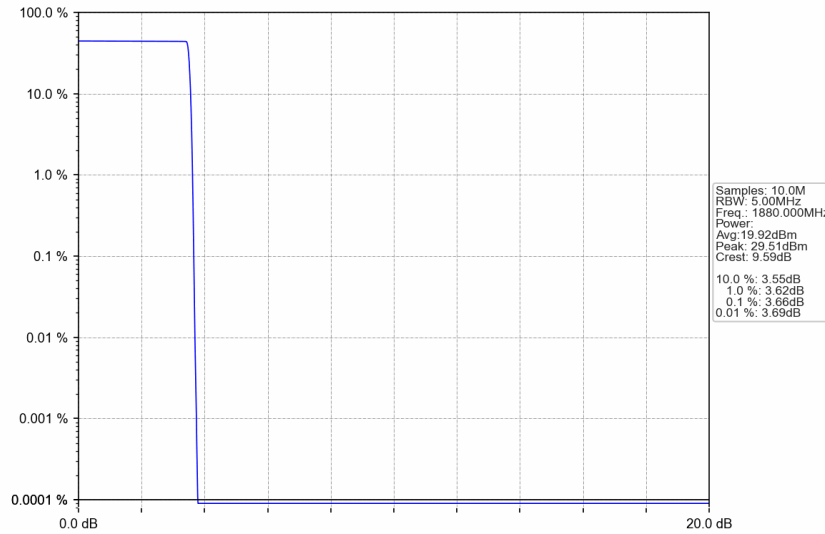
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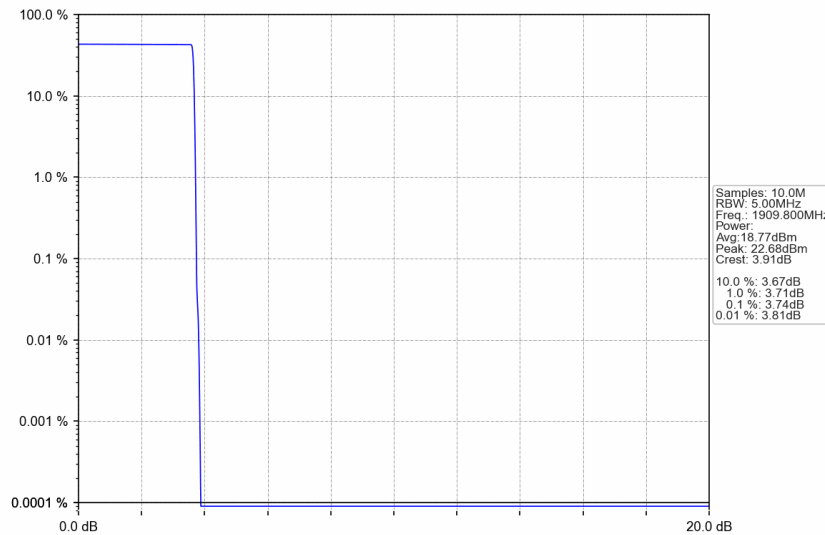
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PCS1900\_GPRS\_MCH\_1880MHz\_4 TX Slots\_NTNV



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



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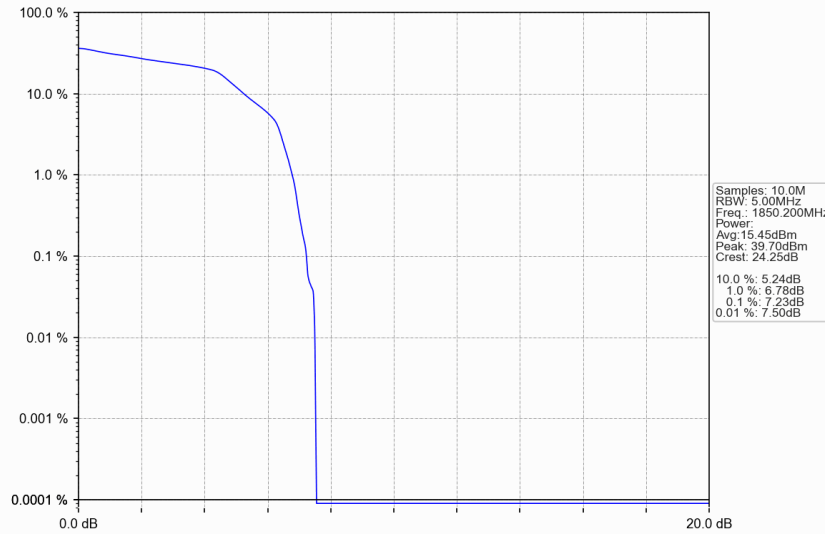
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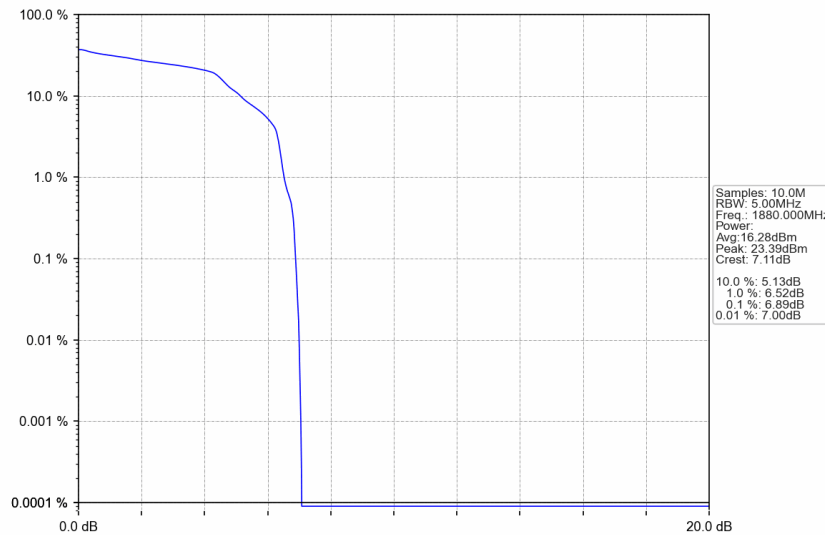
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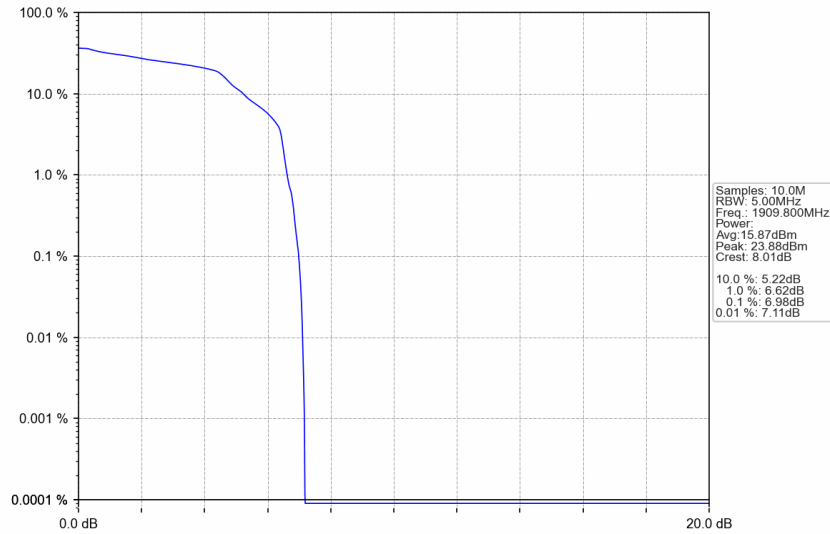
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## 5. Spurious Emission & Band Edges

### 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
			1909.8	Refer To Test Graph		Pass



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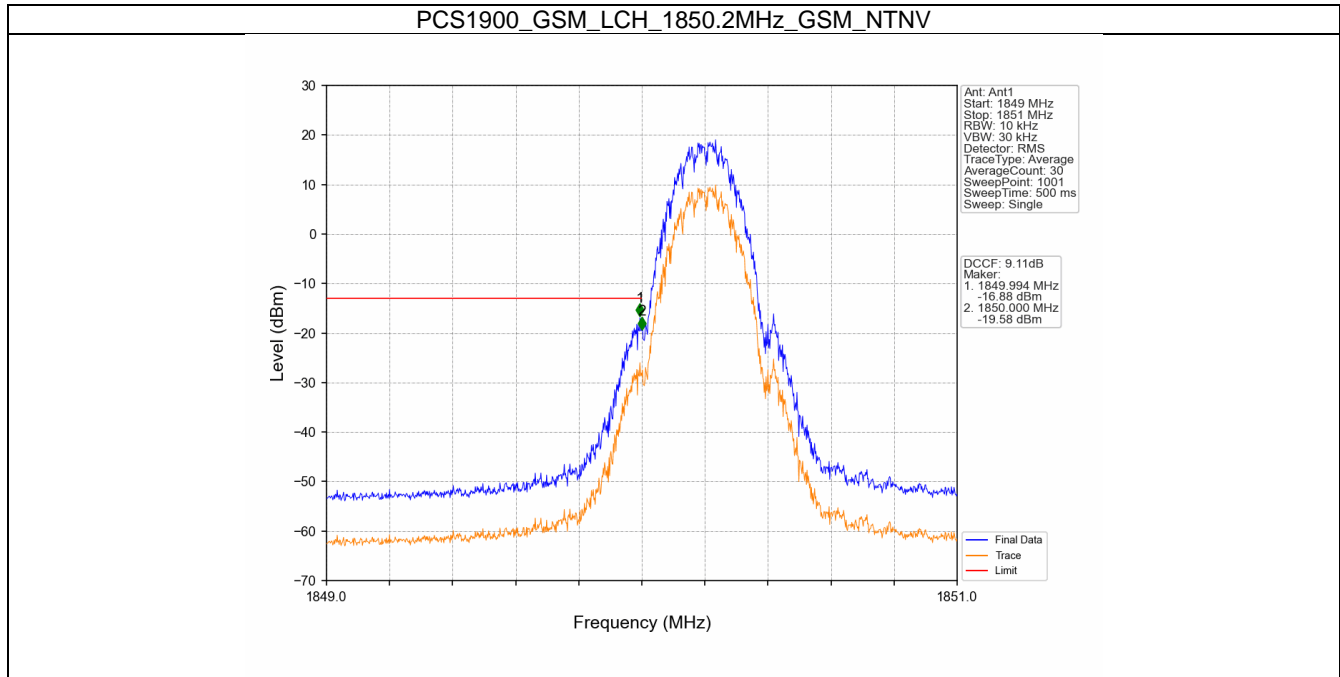
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5.1.2 Test Graph



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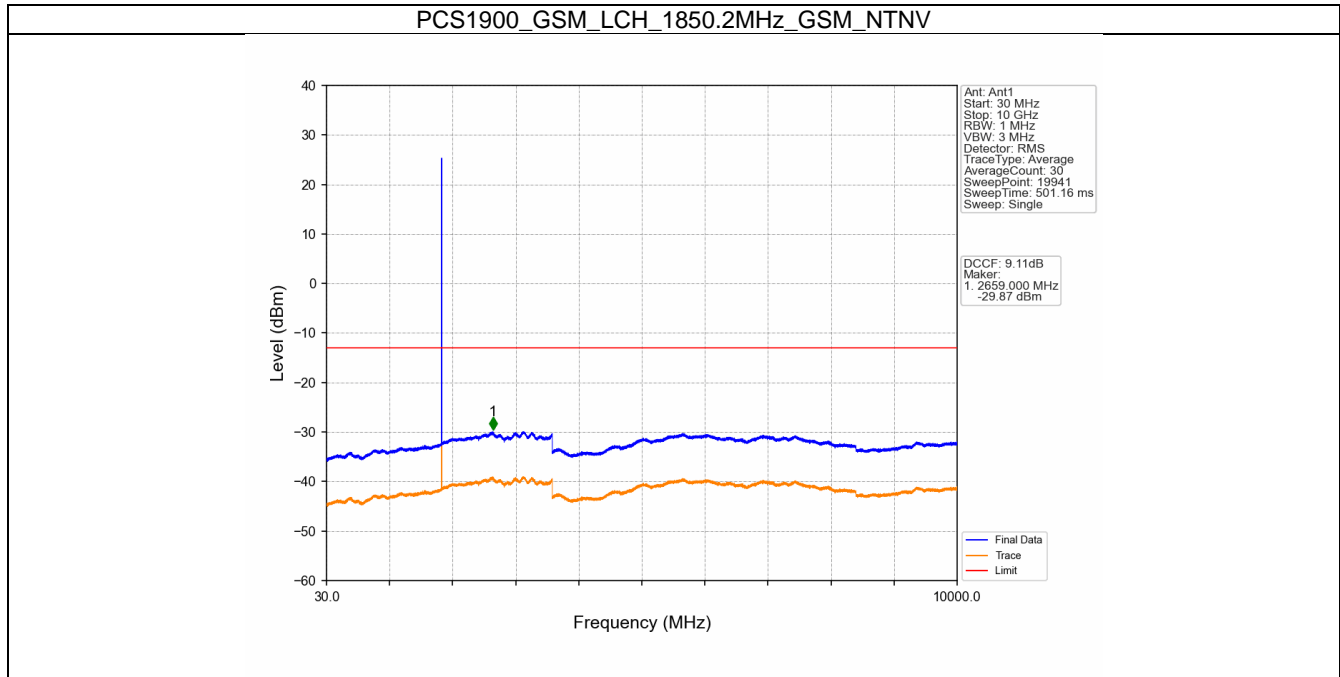


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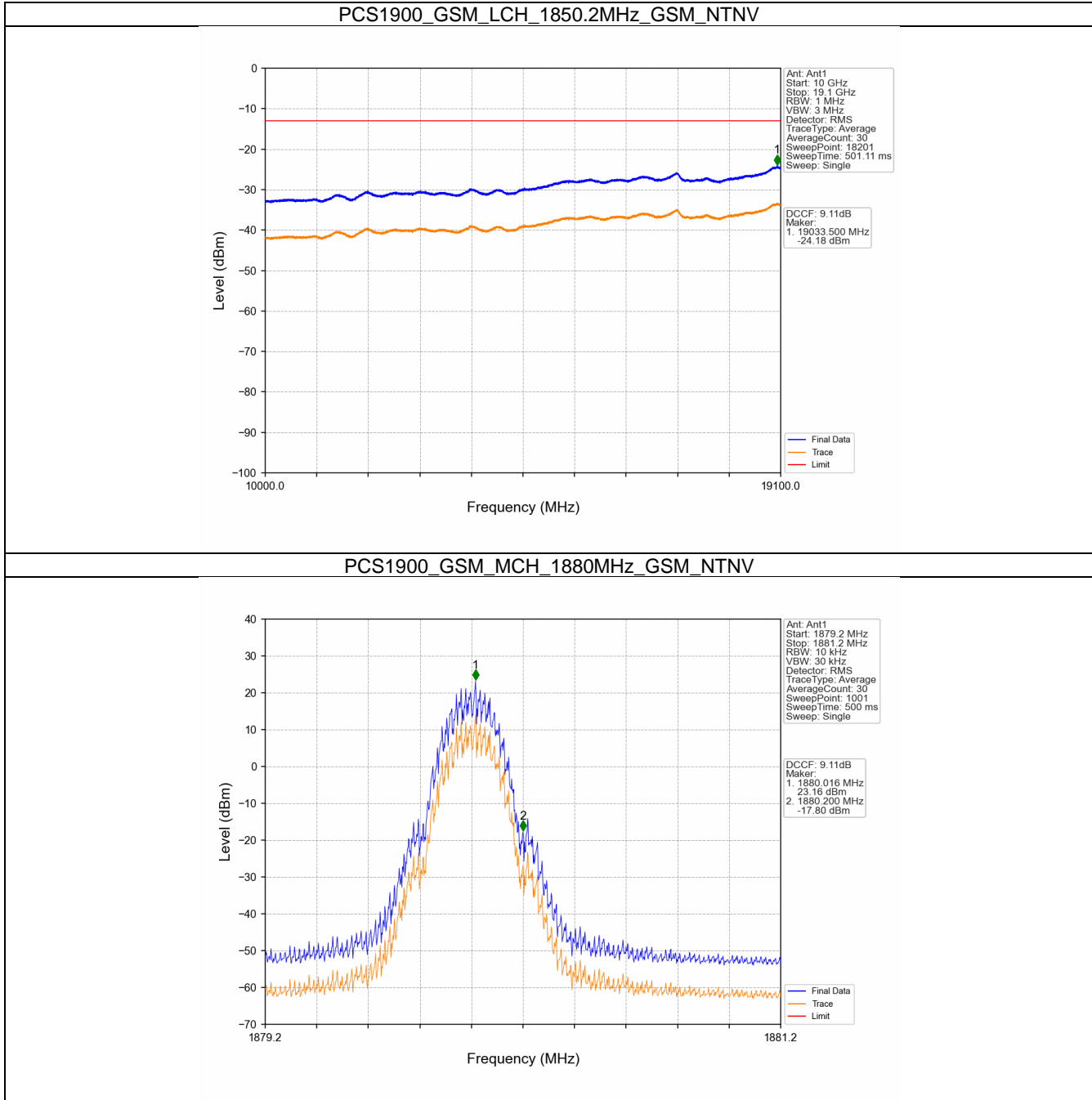


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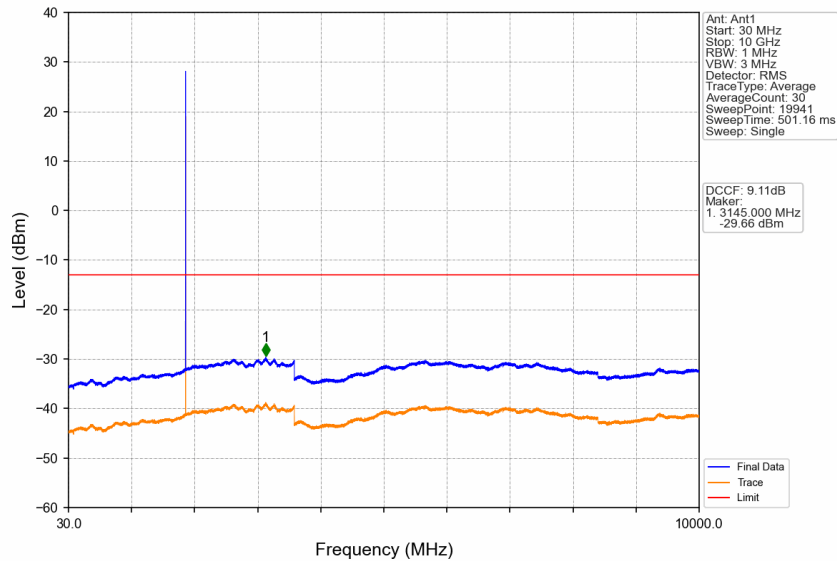
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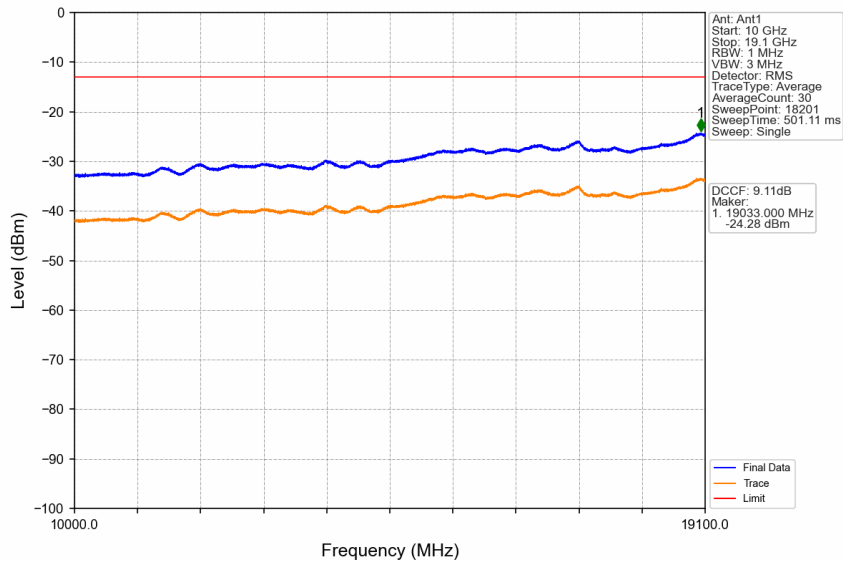
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PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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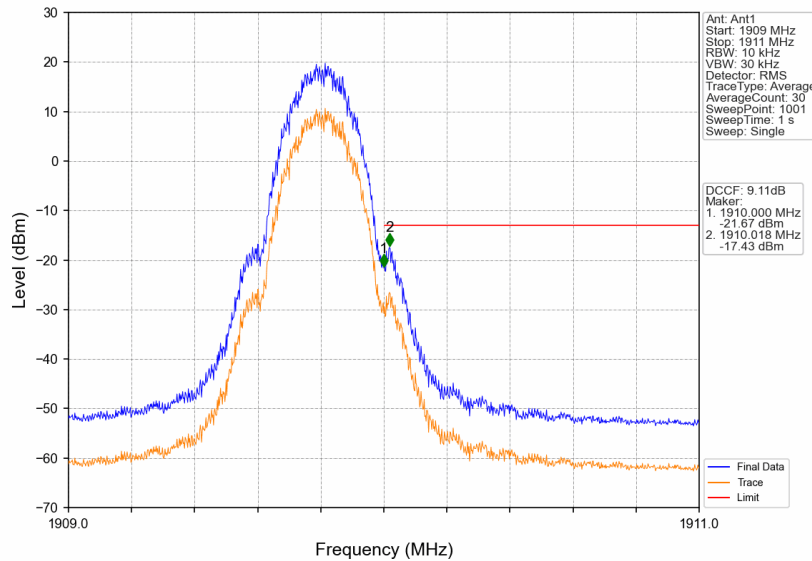
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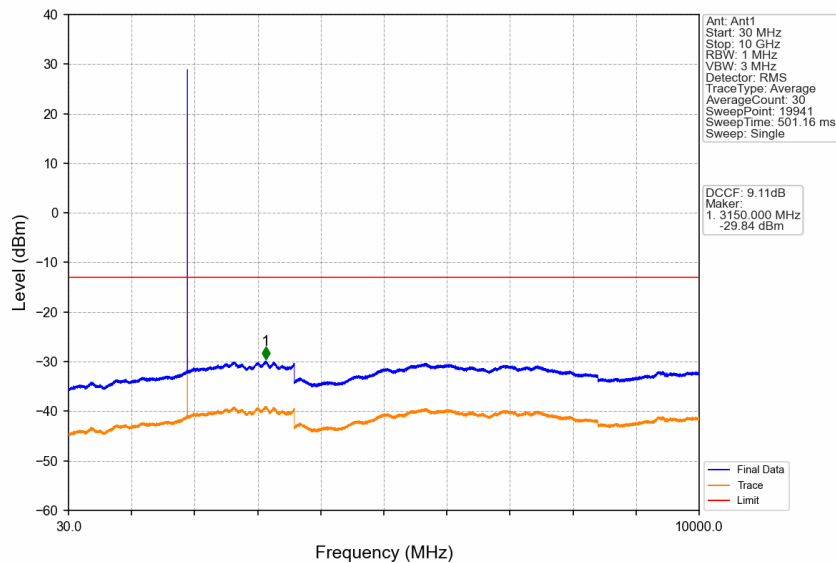
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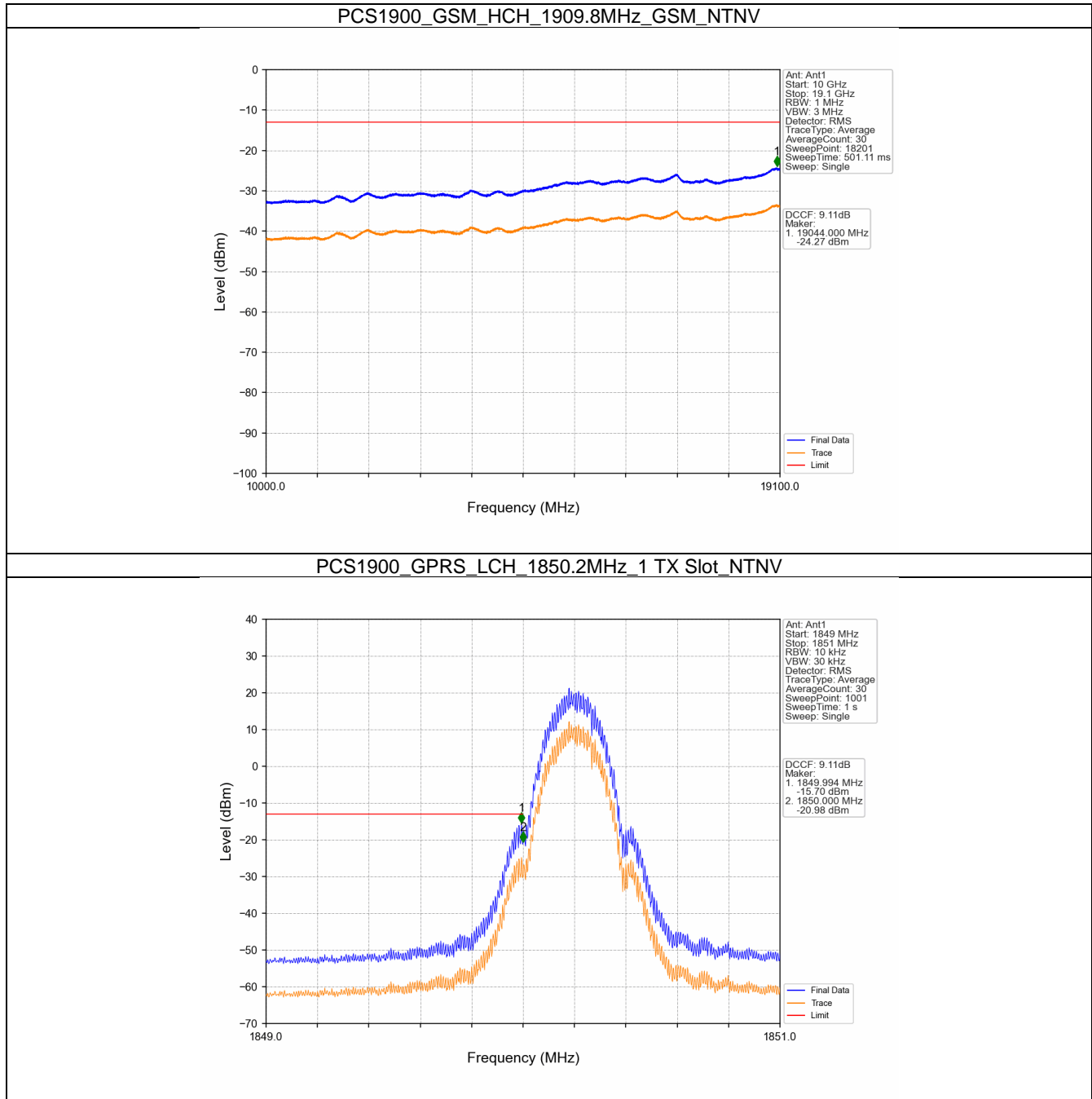


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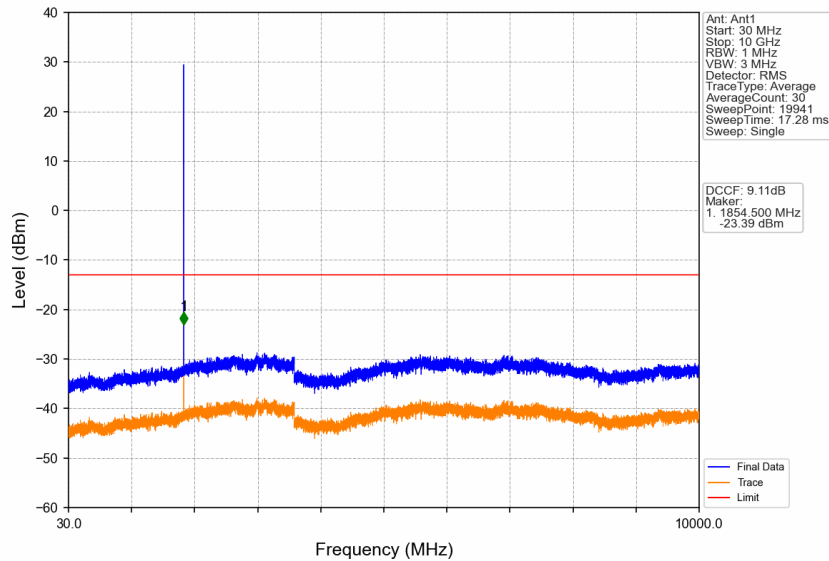
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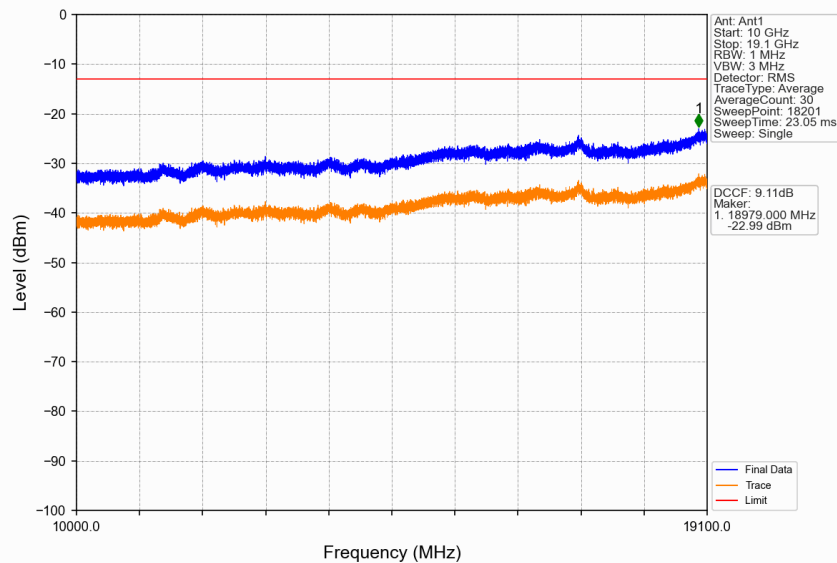
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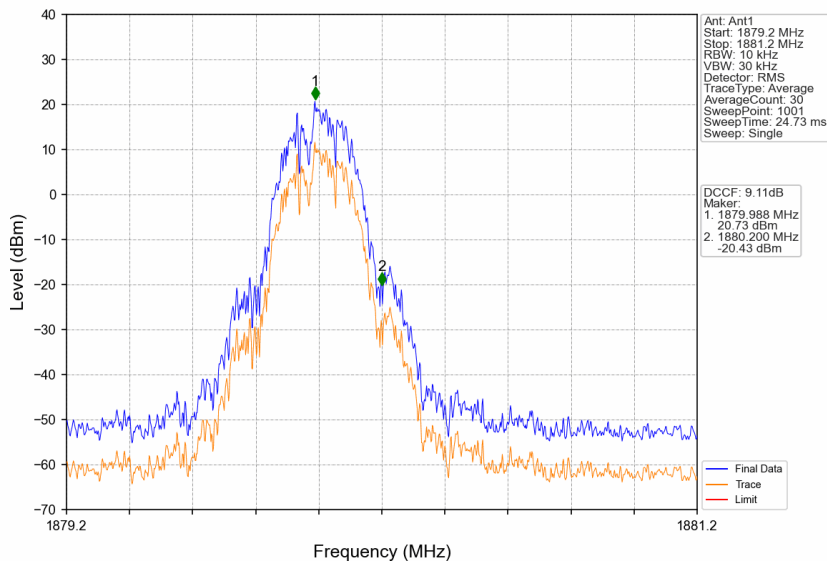




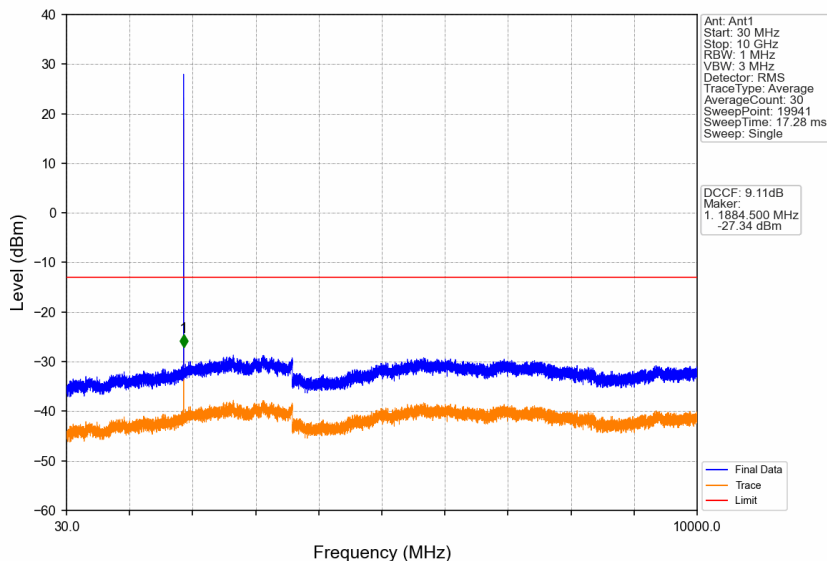
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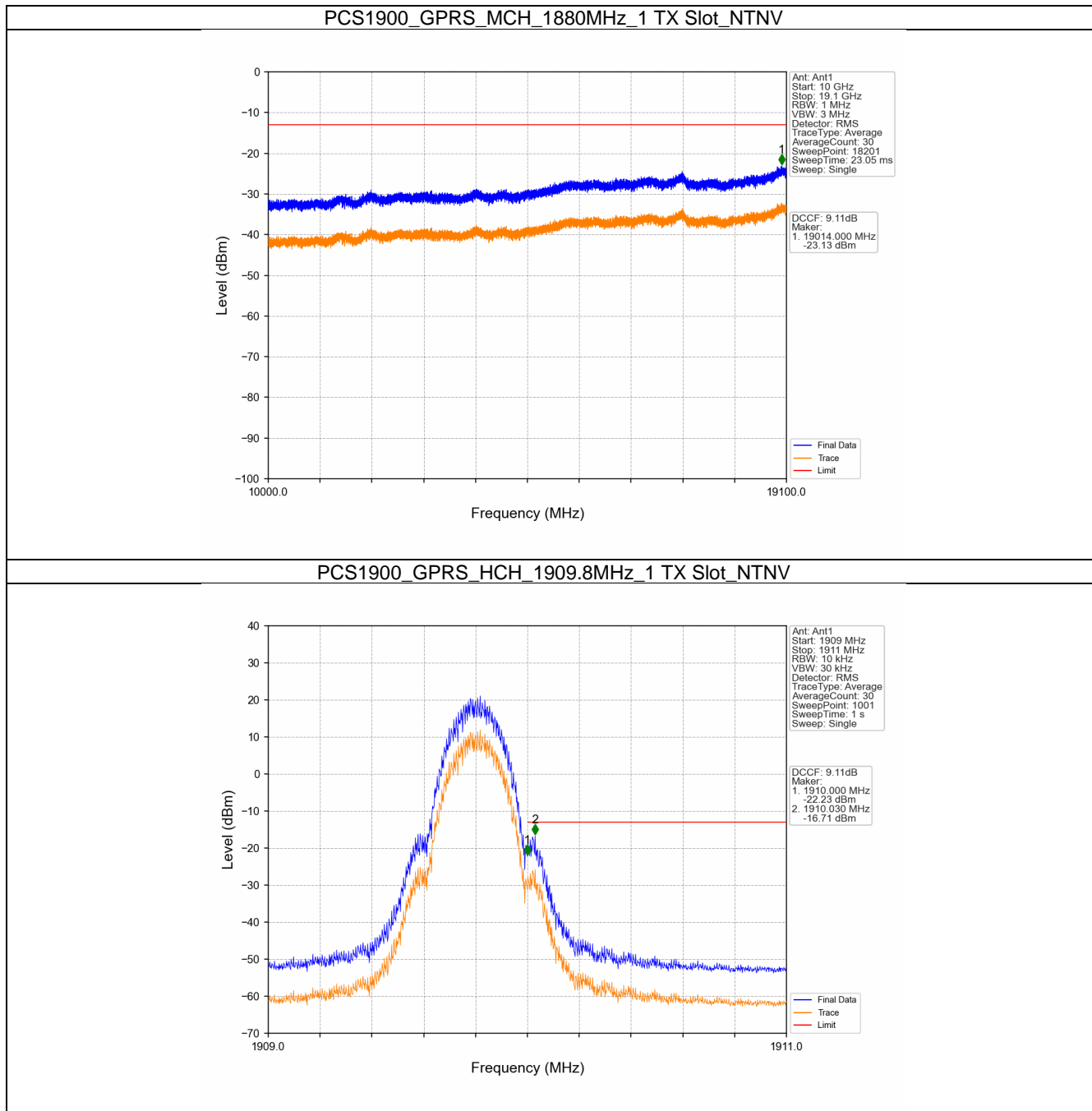
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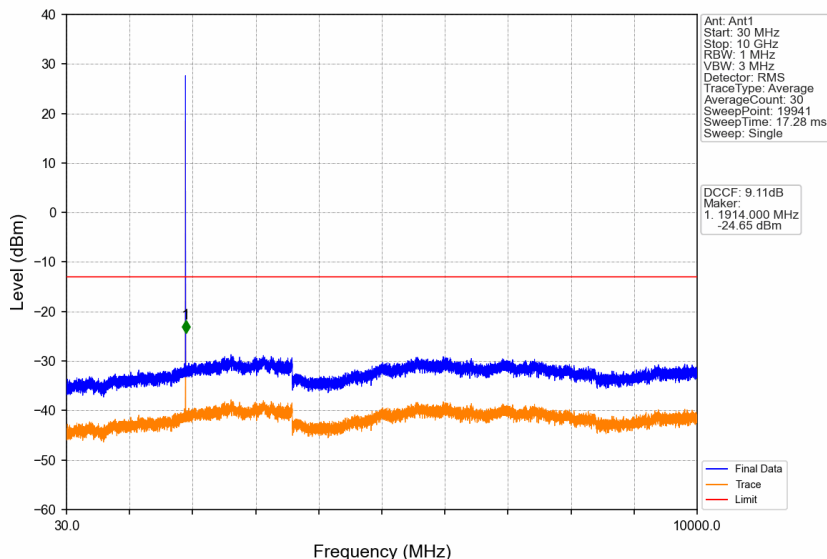
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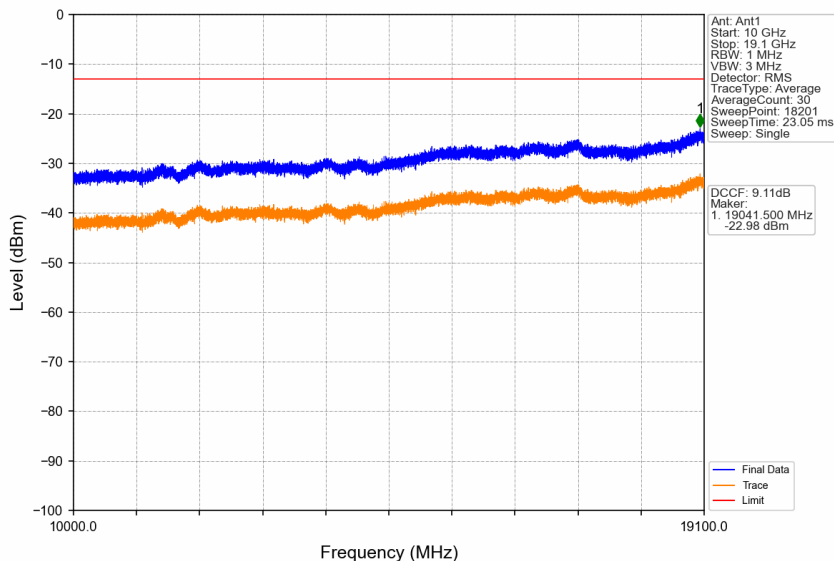
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PCS1900\_GPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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



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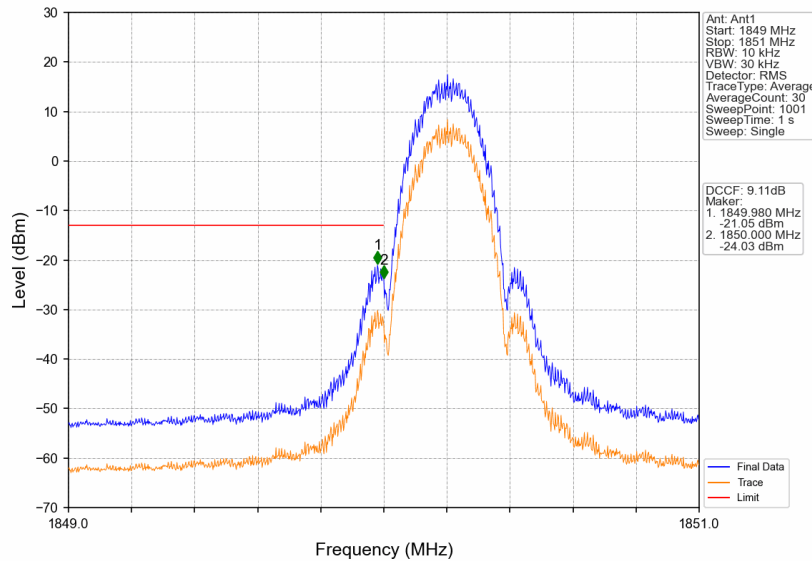
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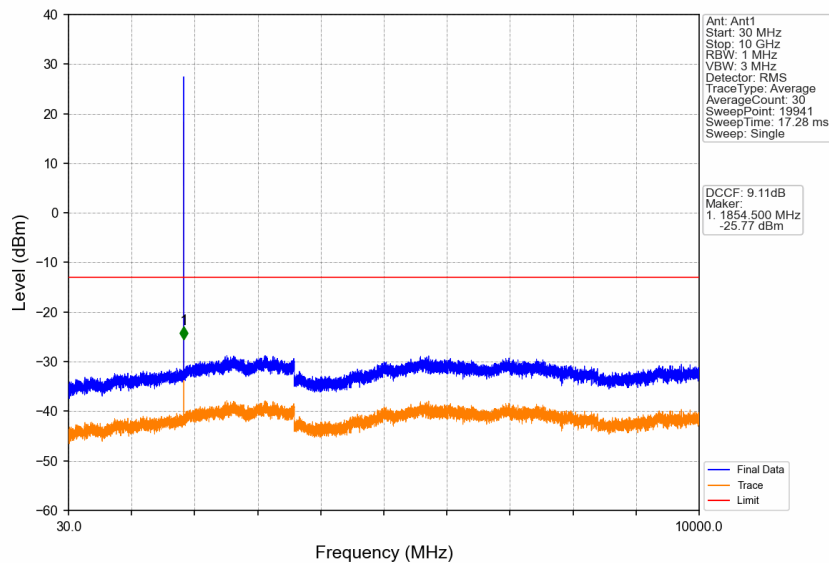
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PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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



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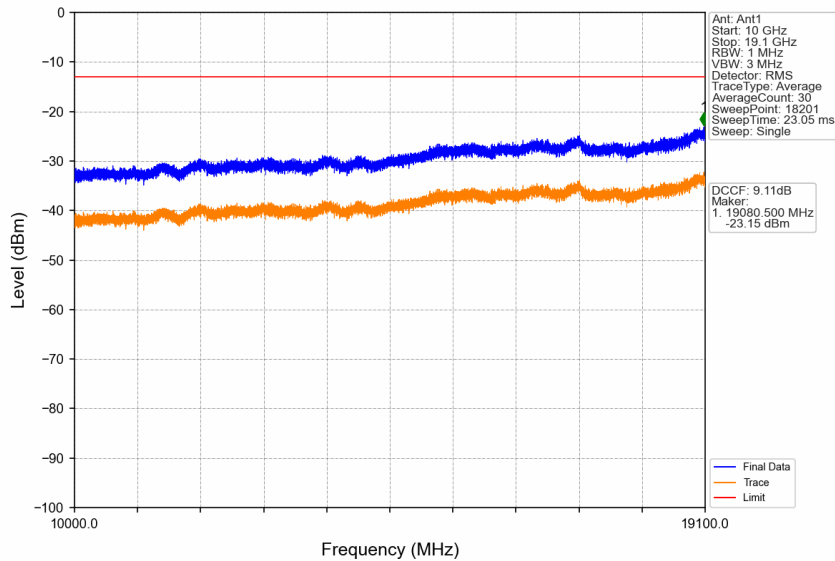
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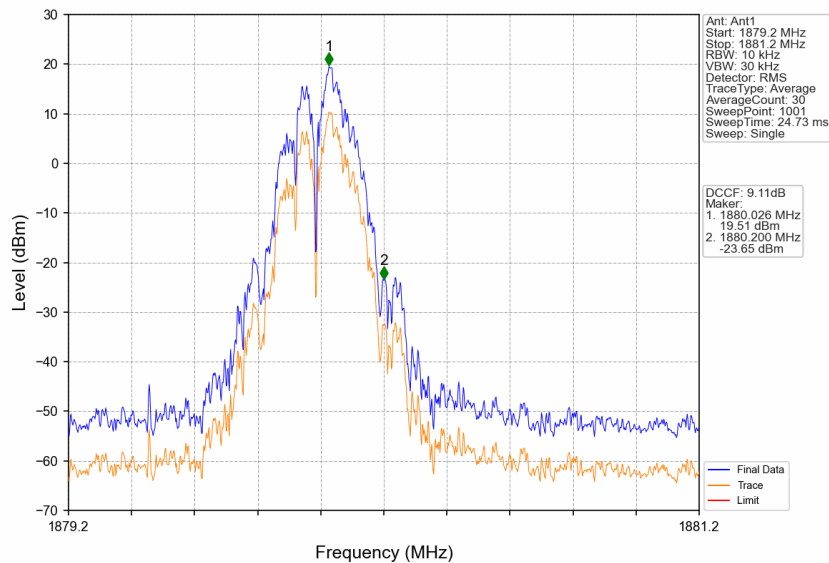
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PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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



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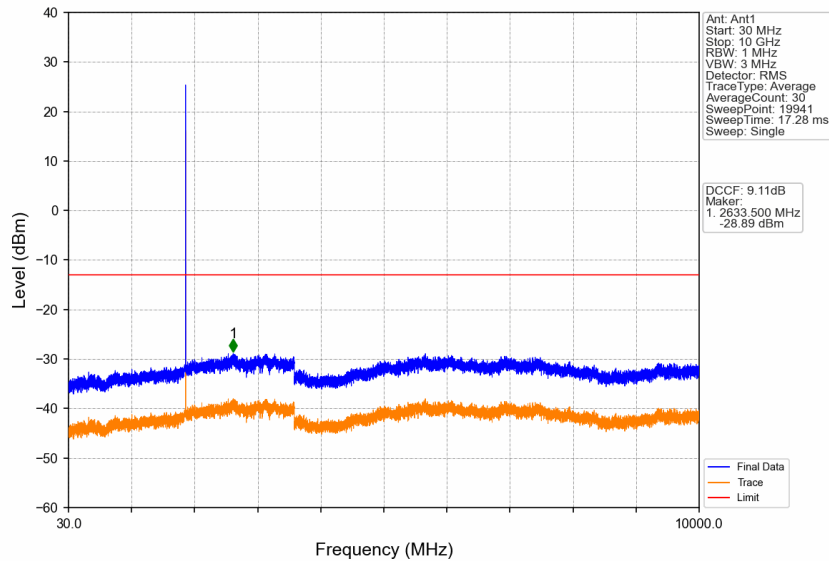
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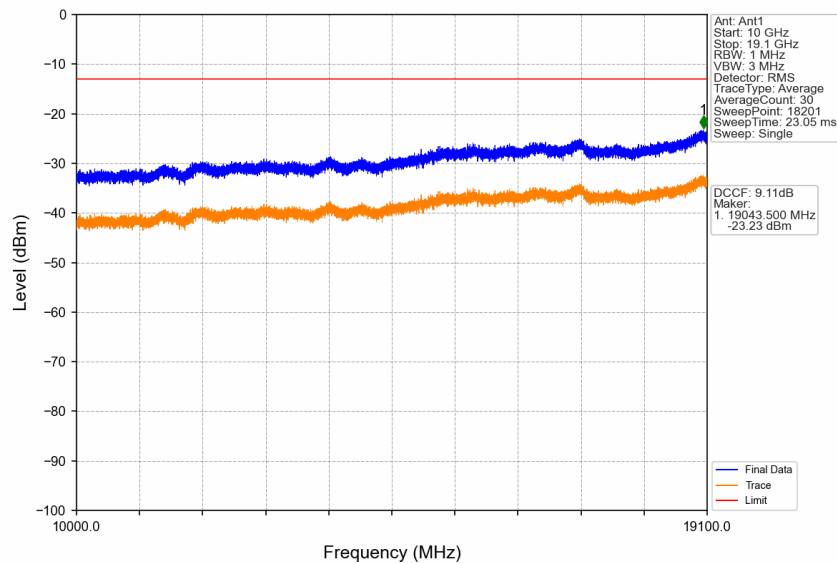
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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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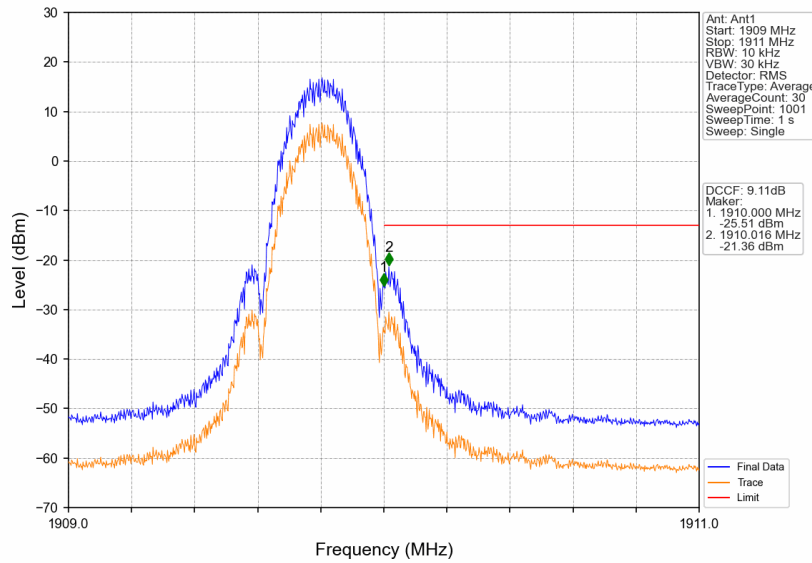
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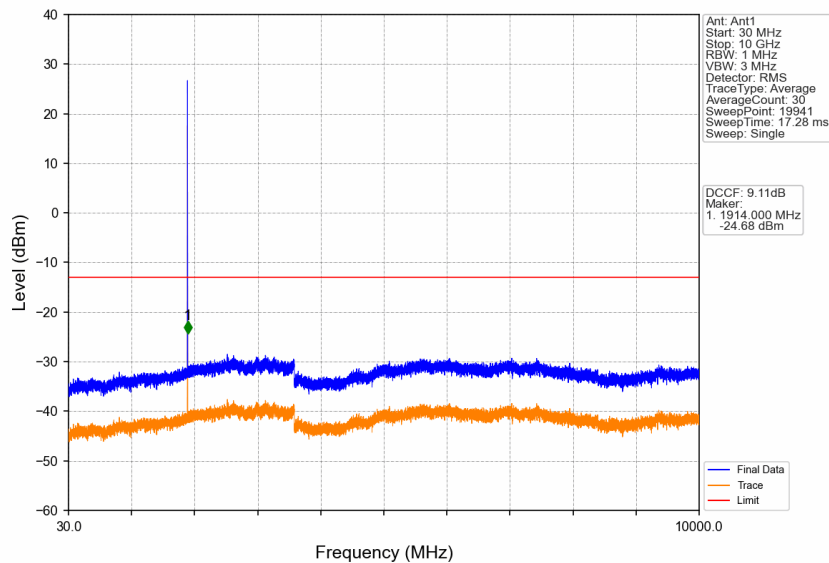
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PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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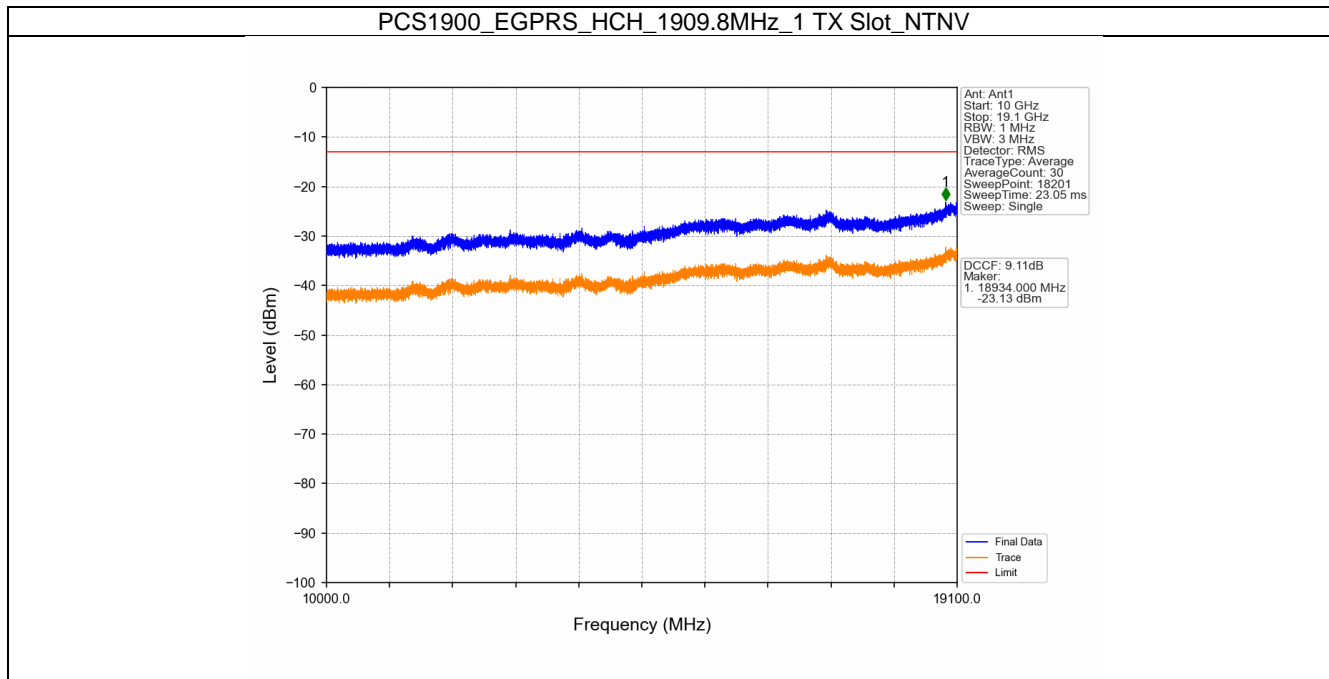
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## 6. Field Strength of Spurious Radiation

**Test Band = GSM1900 ANT13\_ TM1**

**Test Channel = low**

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	44.81	29.02	-47.48	-68.91	-13.00	55.91	Horizontal
2	5550.6000	44.10	32.58	-47.05	-65.63	-13.00	52.63	Horizontal
3	7400.8000	43.26	36.28	-45.07	-60.79	-13.00	47.79	Horizontal
4	9250.5500	40.57	36.68	-42.40	-60.41	-13.00	47.41	Horizontal
5	11100.660	37.57	39.62	-39.40	-57.47	-13.00	44.47	Horizontal
6	12950.770	36.70	39.70	-38.61	-57.47	-13.00	44.47	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	44.87	29.02	-47.48	-68.85	-13.00	55.85	Vertical
2	5550.6000	44.30	32.58	-47.05	-65.43	-13.00	52.43	Vertical
3	7400.8000	43.07	36.28	-45.07	-60.98	-13.00	47.98	Vertical
4	9250.5500	40.54	36.68	-42.40	-60.44	-13.00	47.44	Vertical
5	11100.660	37.43	39.62	-39.40	-57.61	-13.00	44.61	Vertical
6	12950.770	36.45	39.70	-38.61	-57.72	-13.00	44.72	Vertical



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**Test Band = GSM1900 ANT13\_ TM1**  
**Test Channel = mid**

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	45.22	29.12	-47.32	-68.24	-13.00	55.24	Horizontal
2	5640.0000	44.62	32.54	-46.87	-64.97	-13.00	51.97	Horizontal
3	7520.0000	43.36	36.39	-45.00	-60.51	-13.00	47.51	Horizontal
4	9400.0000	40.04	37.02	-41.56	-59.76	-13.00	46.76	Horizontal
5	11279.500	37.78	39.66	-39.27	-57.09	-13.00	44.09	Horizontal
6	13159.000	36.54	39.99	-38.47	-57.20	-13.00	44.20	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	44.32	29.12	-47.32	-69.14	-13.00	56.14	Vertical
2	5640.0000	44.42	32.54	-46.87	-65.17	-13.00	52.17	Vertical
3	7520.0000	43.32	36.39	-45.00	-60.55	-13.00	47.55	Vertical
4	9400.0000	39.96	37.02	-41.56	-59.84	-13.00	46.84	Vertical
5	11279.500	37.99	39.66	-39.27	-56.88	-13.00	43.88	Vertical
6	13159.000	37.09	39.99	-38.47	-56.65	-13.00	43.65	Vertical



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**Test Band = GSM1900 ANT13\_ TM1**  
**Test Channel = high**

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	44.57	29.21	-47.19	-68.67	-13.00	55.67	Horizontal
2	5729.4000	44.07	32.51	-46.79	-65.47	-13.00	52.47	Horizontal
3	7639.2000	42.78	36.34	-44.39	-60.53	-13.00	47.53	Horizontal
4	9548.5500	39.34	37.36	-41.98	-60.54	-13.00	47.54	Horizontal
5	11458.260	37.44	39.69	-38.88	-57.01	-13.00	44.01	Horizontal
6	13367.970	36.53	40.36	-38.63	-57.00	-13.00	44.00	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	44.41	29.21	-47.19	-68.83	-13.00	55.83	Vertical
2	5729.4000	44.12	32.51	-46.79	-65.42	-13.00	52.42	Vertical
3	7639.2000	42.37	36.34	-44.39	-60.94	-13.00	47.94	Vertical
4	9548.5500	39.56	37.36	-41.98	-60.32	-13.00	47.32	Vertical
5	11458.260	37.71	39.69	-38.88	-56.74	-13.00	43.74	Vertical
6	13367.970	36.67	40.36	-38.63	-56.86	-13.00	43.86	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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

---End of Attachment---



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