



Report No.: SEWA2310000127RG01  
Rev.: 01  
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# Appendix B.2

## GSM 1900



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1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

ANT1

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
GSM1900	512	27.56	29.49	33.00	PASS
GSM1900	661	27.42	29.35	33.00	PASS
GSM1900	810	27.52	29.45	33.00	PASS

Band	Channel	Slot	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
EGPRS1900	512	1	25.99	27.92	33.00	PASS
EGPRS1900	512	2	25.83	27.76	33.00	PASS
EGPRS1900	512	3	25.69	27.62	33.00	PASS
EGPRS1900	512	4	24.58	26.51	33.00	PASS
EGPRS1900	661	1	25.99	27.92	33.00	PASS
EGPRS1900	661	2	25.93	27.86	33.00	PASS
EGPRS1900	661	3	25.82	27.75	33.00	PASS
EGPRS1900	661	4	24.78	26.71	33.00	PASS
EGPRS1900	810	1	26.22	28.15	33.00	PASS
EGPRS1900	810	2	26.14	28.07	33.00	PASS
EGPRS1900	810	3	26.02	27.95	33.00	PASS
EGPRS1900	810	4	24.70	26.63	33.00	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	3.8	-10.538	-0.0057	-2.5 to 2.5	Pass
			4.0	-6.639	-0.0036	-2.5 to 2.5	Pass
			4.2	-3.441	-0.0019	-2.5 to 2.5	Pass
		-30	4.0	-5.371	-0.0029	-2.5 to 2.5	Pass
		-20	4.0	-4.281	-0.0023	-2.5 to 2.5	Pass
		-10	4.0	-9.532	-0.0052	-2.5 to 2.5	Pass
		0	4.0	-1.447	-0.0008	-2.5 to 2.5	Pass
		10	4.0	-8.209	-0.0044	-2.5 to 2.5	Pass
		30	4.0	-2.211	-0.0012	-2.5 to 2.5	Pass
		40	4.0	-7.009	-0.0038	-2.5 to 2.5	Pass
	50	4.0	-10.397	-0.0056	-2.5 to 2.5	Pass	
	1880	20	3.8	0.732	0.0004	-2.5 to 2.5	Pass
			4.0	-5.829	-0.0031	-2.5 to 2.5	Pass
			4.2	-6.111	-0.0033	-2.5 to 2.5	Pass
		-30	4.0	-3.529	-0.0019	-2.5 to 2.5	Pass
		-20	4.0	-5.608	-0.0030	-2.5 to 2.5	Pass
		-10	4.0	-3.293	-0.0018	-2.5 to 2.5	Pass
		0	4.0	-6.338	-0.0034	-2.5 to 2.5	Pass
		10	4.0	-6.243	-0.0033	-2.5 to 2.5	Pass
		30	4.0	-6.487	-0.0035	-2.5 to 2.5	Pass
		40	4.0	-7.577	-0.0040	-2.5 to 2.5	Pass
	50	4.0	-6.301	-0.0034	-2.5 to 2.5	Pass	
	1909.8	20	3.8	-4.338	-0.0023	-2.5 to 2.5	Pass
			4.0	-6.386	-0.0033	-2.5 to 2.5	Pass
			4.2	-5.814	-0.0030	-2.5 to 2.5	Pass
		-30	4.0	-4.648	-0.0024	-2.5 to 2.5	Pass
		-20	4.0	-9.038	-0.0047	-2.5 to 2.5	Pass
		-10	4.0	-5.449	-0.0029	-2.5 to 2.5	Pass
		0	4.0	-6.407	-0.0034	-2.5 to 2.5	Pass
		10	4.0	-10.240	-0.0054	-2.5 to 2.5	Pass
30		4.0	-5.014	-0.0026	-2.5 to 2.5	Pass	
40		4.0	-8.282	-0.0043	-2.5 to 2.5	Pass	
50	4.0	-1.636	-0.0009	-2.5 to 2.5	Pass		
EGPRS	1850.2	20	3.8	-8.929	-0.0048	-2.5 to 2.5	Pass
			4.0	-14.951	-0.0081	-2.5 to 2.5	Pass
			4.2	-9.025	-0.0049	-2.5 to 2.5	Pass
		-30	4.0	-13.856	-0.0075	-2.5 to 2.5	Pass
		-20	4.0	-11.429	-0.0062	-2.5 to 2.5	Pass
		-10	4.0	-12.989	-0.0070	-2.5 to 2.5	Pass
		0	4.0	-10.421	-0.0056	-2.5 to 2.5	Pass



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		10	4.0	-9.974	-0.0054	-2.5 to 2.5	Pass
		30	4.0	-14.271	-0.0077	-2.5 to 2.5	Pass
		40	4.0	-15.057	-0.0081	-2.5 to 2.5	Pass
		50	4.0	-10.642	-0.0058	-2.5 to 2.5	Pass
	1880	20	3.8	-13.891	-0.0074	-2.5 to 2.5	Pass
			4.0	-9.063	-0.0048	-2.5 to 2.5	Pass
			4.2	-10.972	-0.0058	-2.5 to 2.5	Pass
		-30	4.0	-9.065	-0.0048	-2.5 to 2.5	Pass
		-20	4.0	-13.590	-0.0072	-2.5 to 2.5	Pass
		-10	4.0	-12.923	-0.0069	-2.5 to 2.5	Pass
		0	4.0	-11.716	-0.0062	-2.5 to 2.5	Pass
		10	4.0	-16.173	-0.0086	-2.5 to 2.5	Pass
		30	4.0	-13.107	-0.0070	-2.5 to 2.5	Pass
		40	4.0	-11.999	-0.0064	-2.5 to 2.5	Pass
		50	4.0	-13.890	-0.0074	-2.5 to 2.5	Pass
		1909.8	20	3.8	-14.767	-0.0077	-2.5 to 2.5
	4.0			-16.826	-0.0088	-2.5 to 2.5	Pass
	4.2			-14.468	-0.0076	-2.5 to 2.5	Pass
	-30		4.0	-17.099	-0.0090	-2.5 to 2.5	Pass
	-20		4.0	-15.802	-0.0083	-2.5 to 2.5	Pass
-10	4.0		-12.359	-0.0065	-2.5 to 2.5	Pass	
0	4.0		-14.877	-0.0078	-2.5 to 2.5	Pass	
10	4.0		-11.882	-0.0062	-2.5 to 2.5	Pass	
30	4.0		-15.621	-0.0082	-2.5 to 2.5	Pass	
40	4.0		-12.319	-0.0065	-2.5 to 2.5	Pass	
50	4.0		-16.962	-0.0089	-2.5 to 2.5	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	0.249	/	Pass
			1880	0.247	/	Pass
			1909.8	0.249	/	Pass
	EGPRS	1 TX Slot	1850.2	0.248	/	Pass
			1880	0.250	/	Pass
			1909.8	0.254	/	Pass

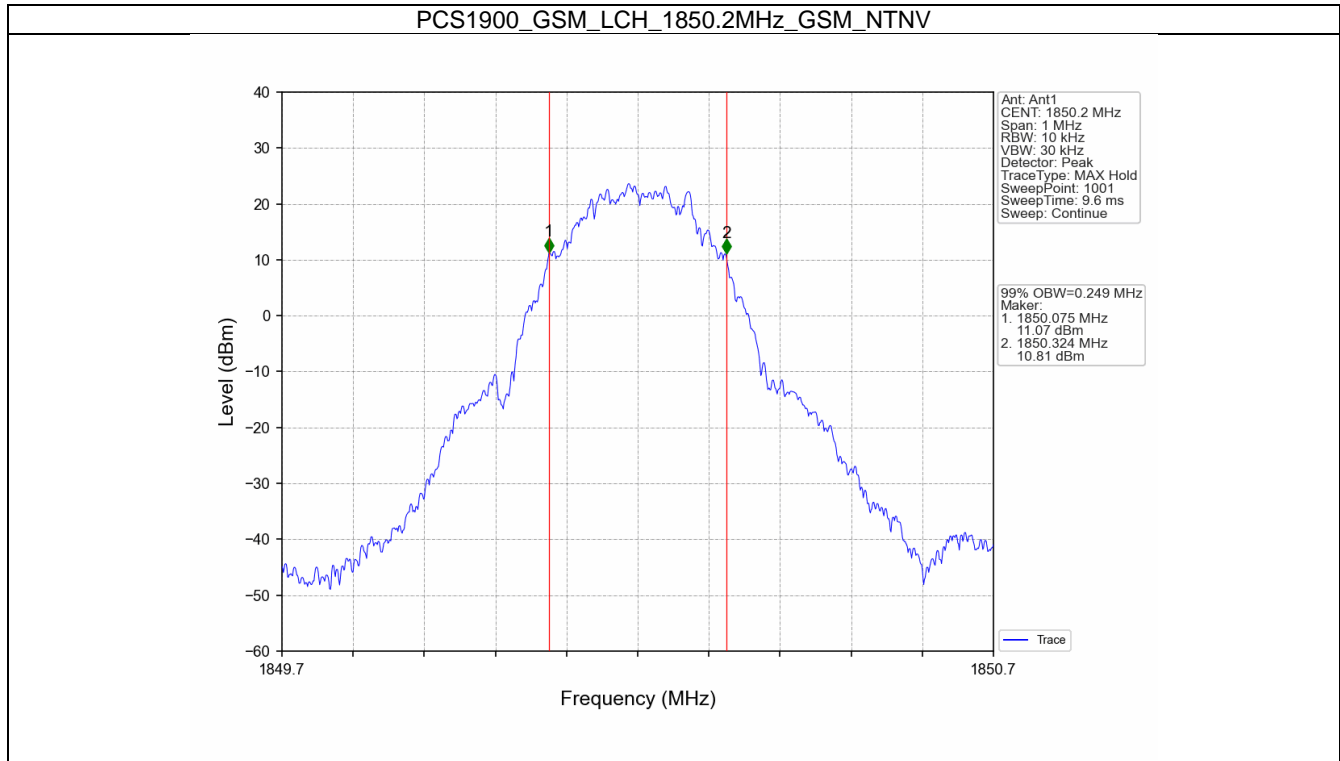


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3.1.2 Test Graph

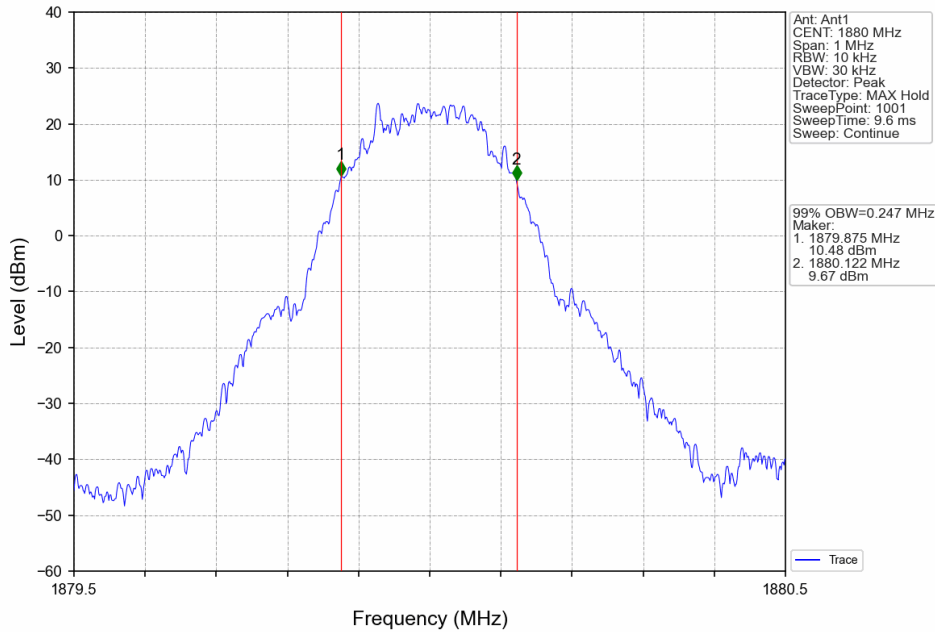


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PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV

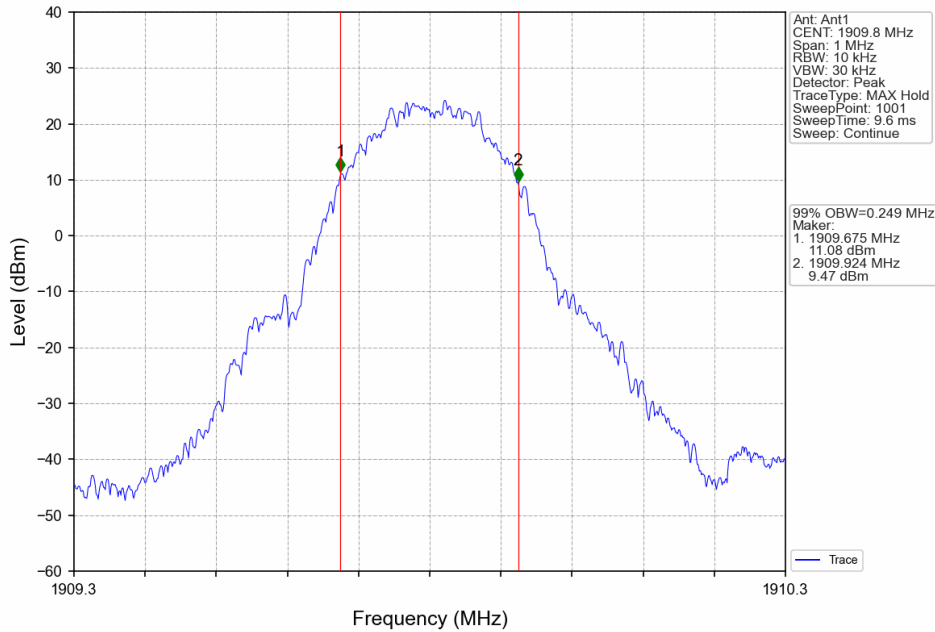


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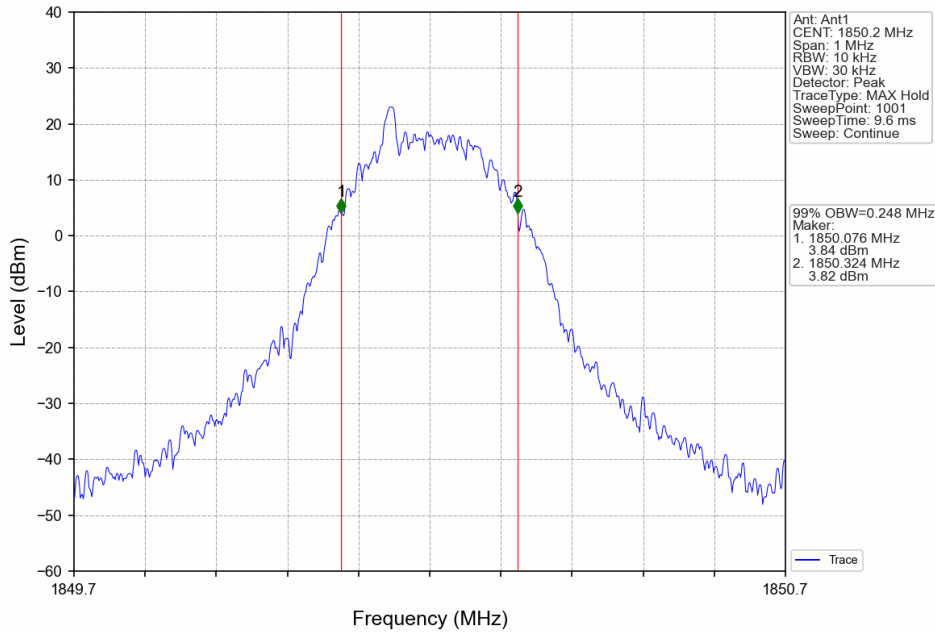
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PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV

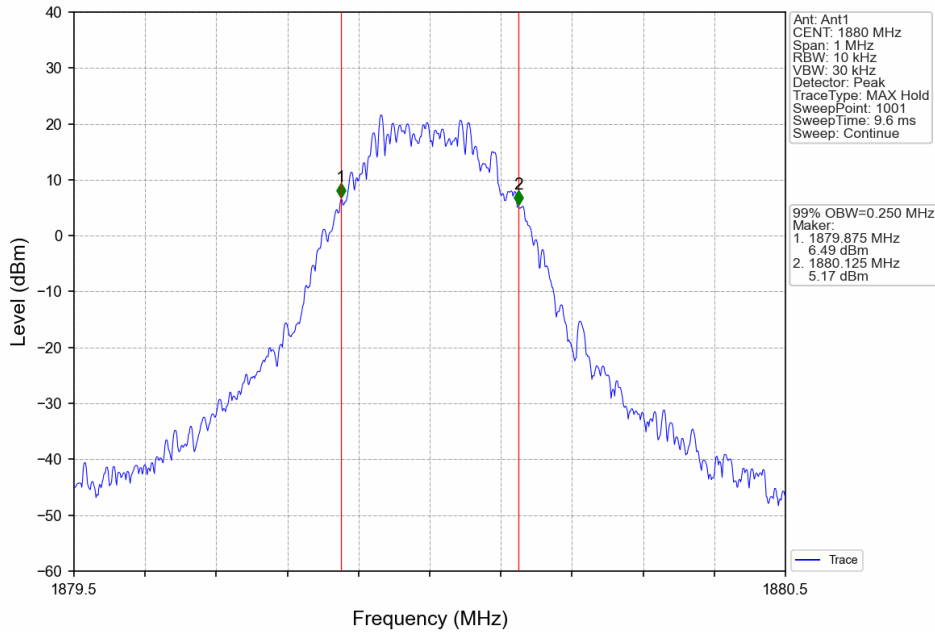


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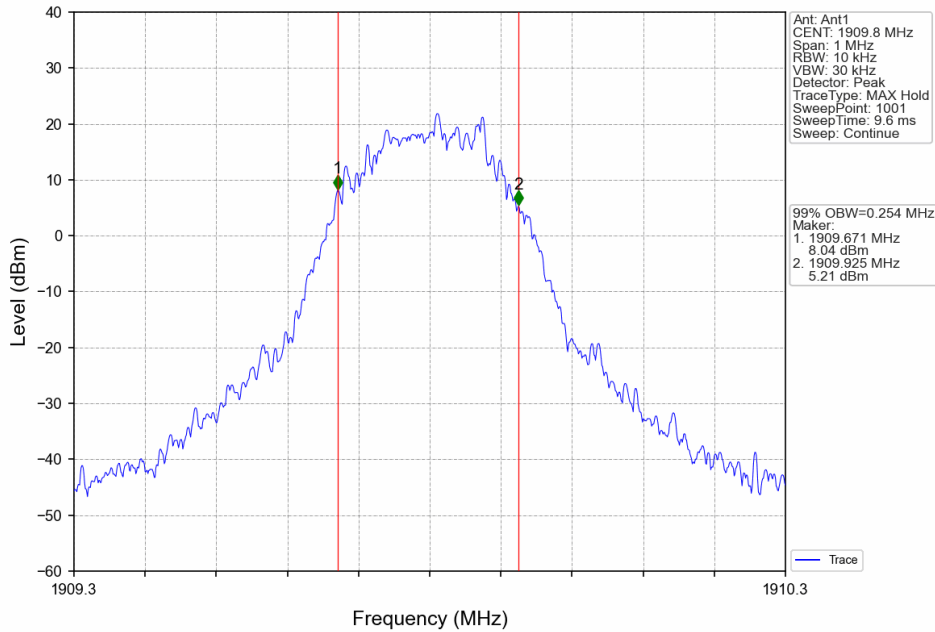


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3.2 PCS1900\_XDB

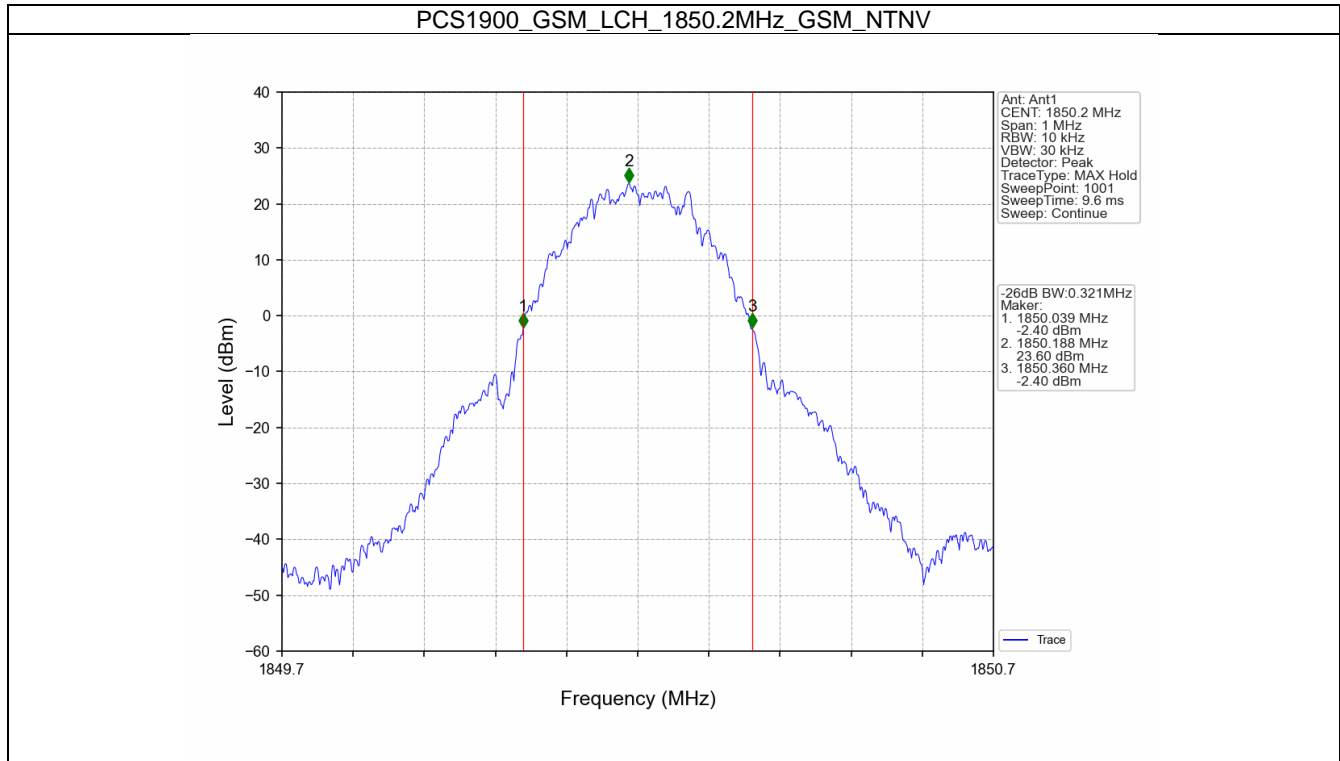
3.2.1 Test Result

Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), 26dB Bandwidth (MHz) (Result, Limit), Verdict. Data rows for NTVN testing GSM and EGPRS modes.



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3.2.2 Test Graph

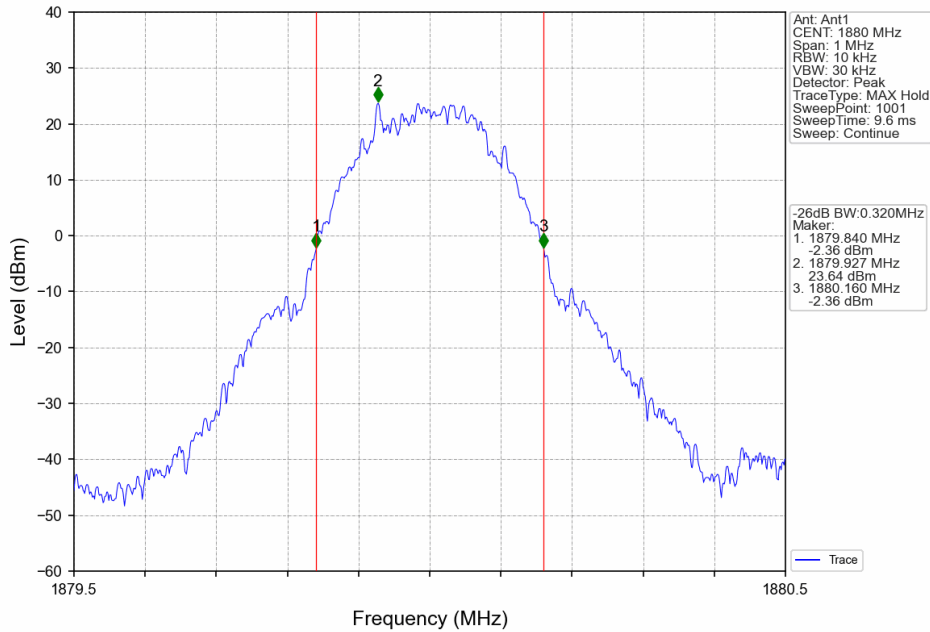


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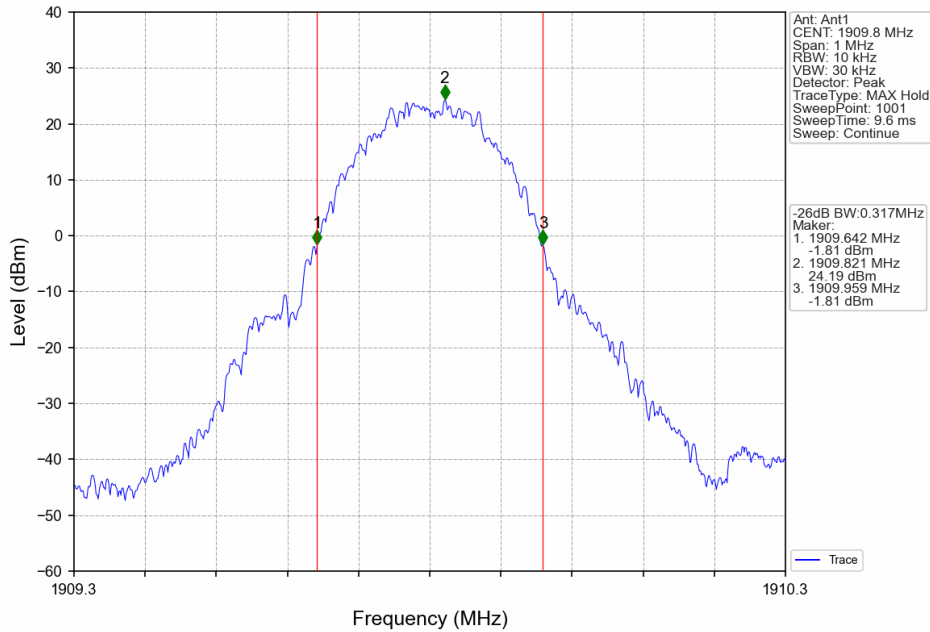


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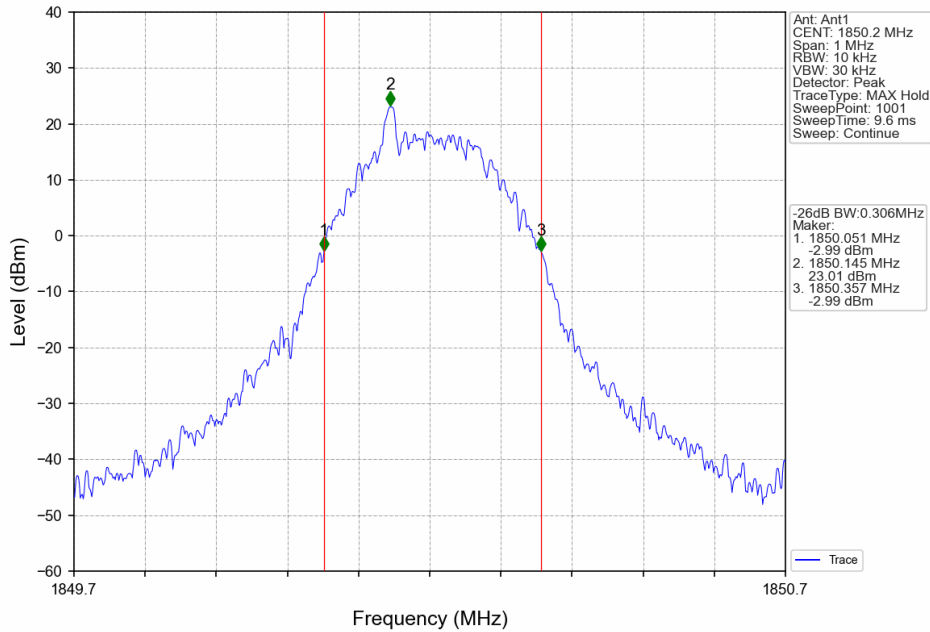


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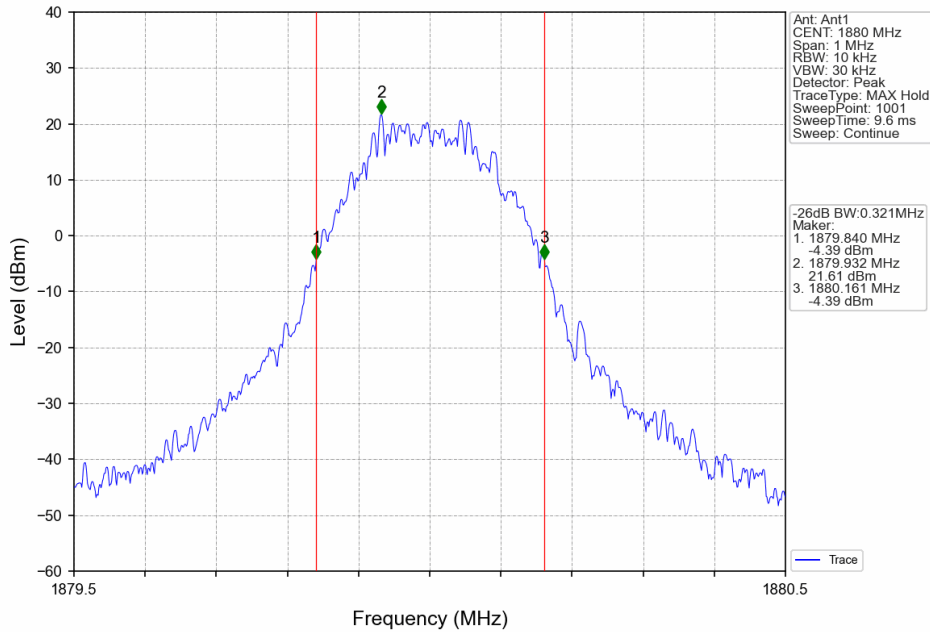
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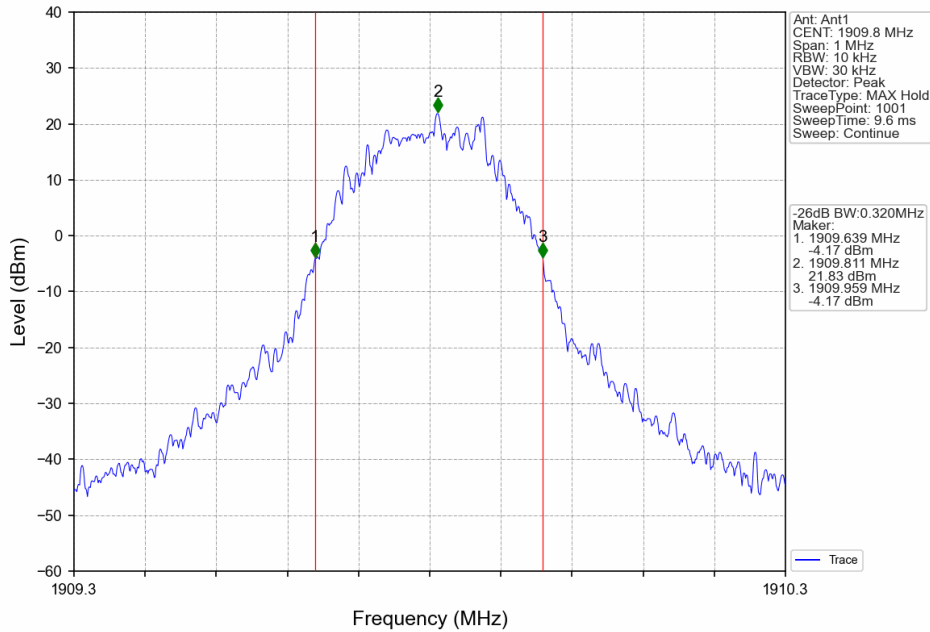


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### 4. Peak-Average Ratio

#### 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	9.09	<=13	Pass
			1880	8.86	<=13	Pass
			1909.8	9.68	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.73	<=13	Pass
			1880	8.28	<=13	Pass
			1909.8	8.37	<=13	Pass

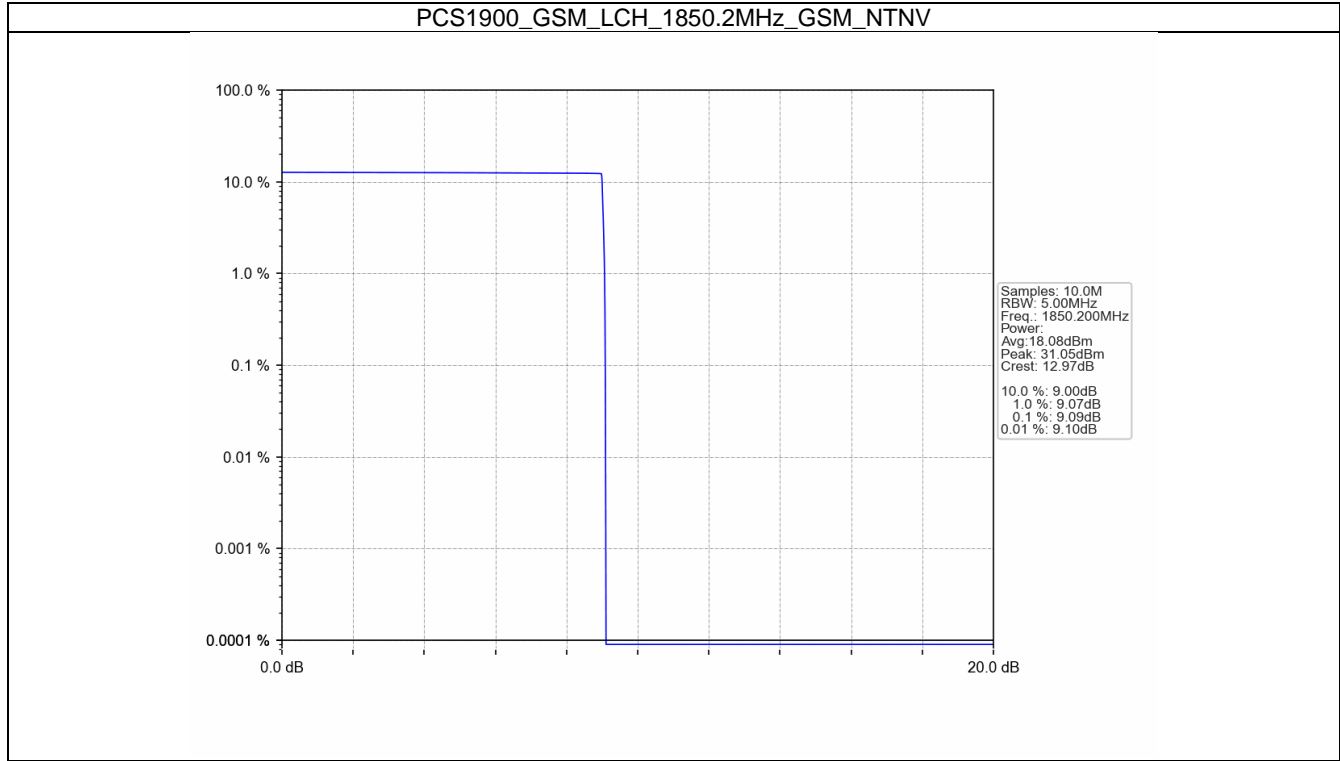


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4.1.2 Test Graph



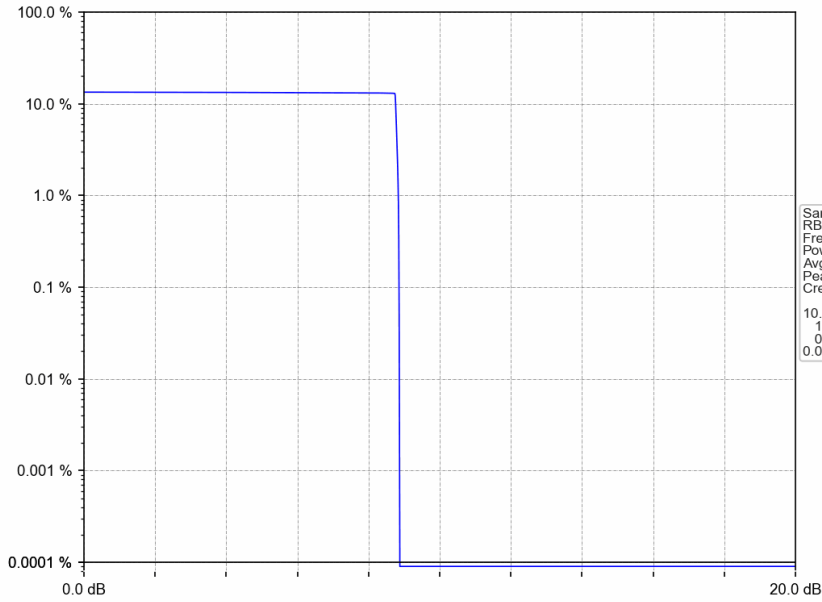
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Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 1880.000MHz  
 Power:  
 Avg: 16.61dBm  
 Peak: 27.78dBm  
 Crest: 9.17dB



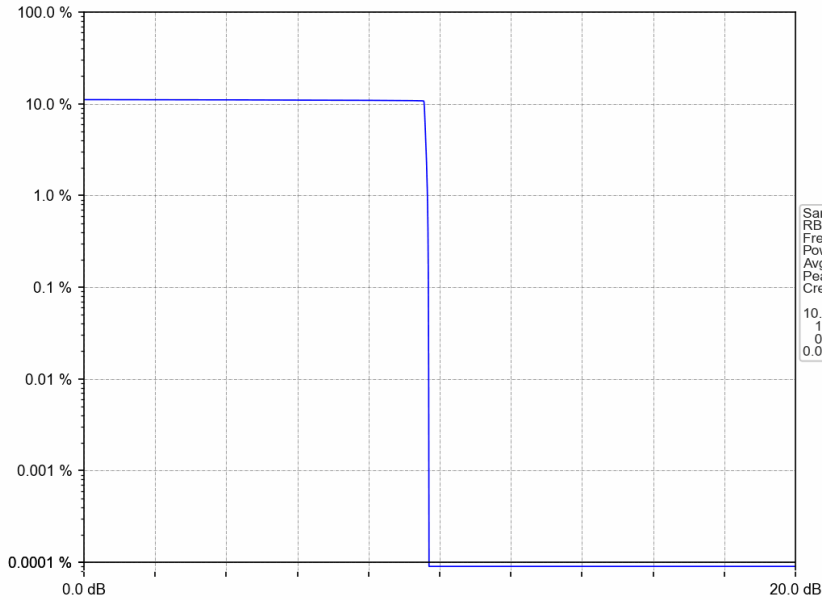
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Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 1909.800MHz  
 Power:  
 Avg: 17.91dBm  
 Peak: 30.96dBm  
 Crest: 13.05dB

10.0 %: 9.56dB  
 1.0 %: 9.65dB  
 0.1 %: 9.68dB  
 0.01 %: 9.69dB



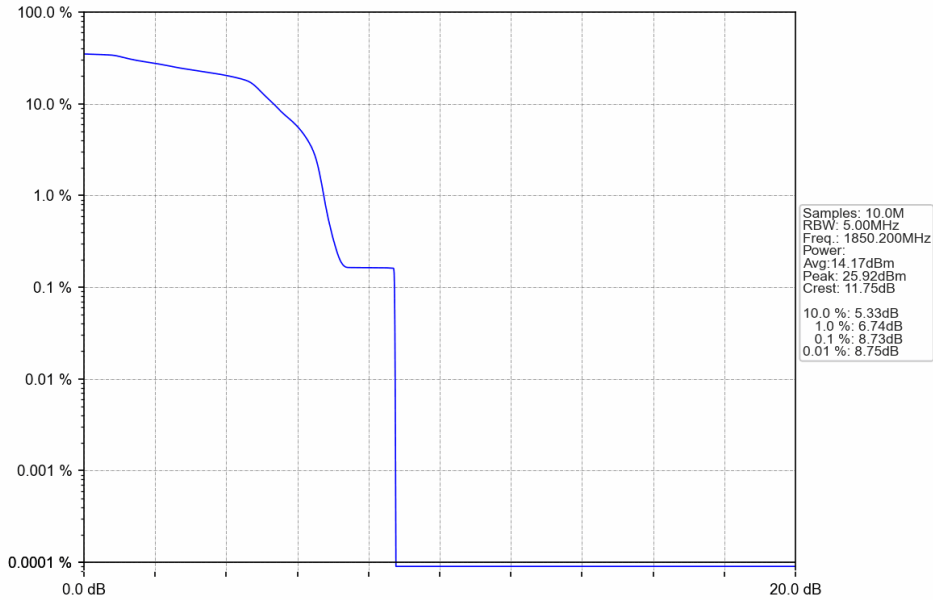
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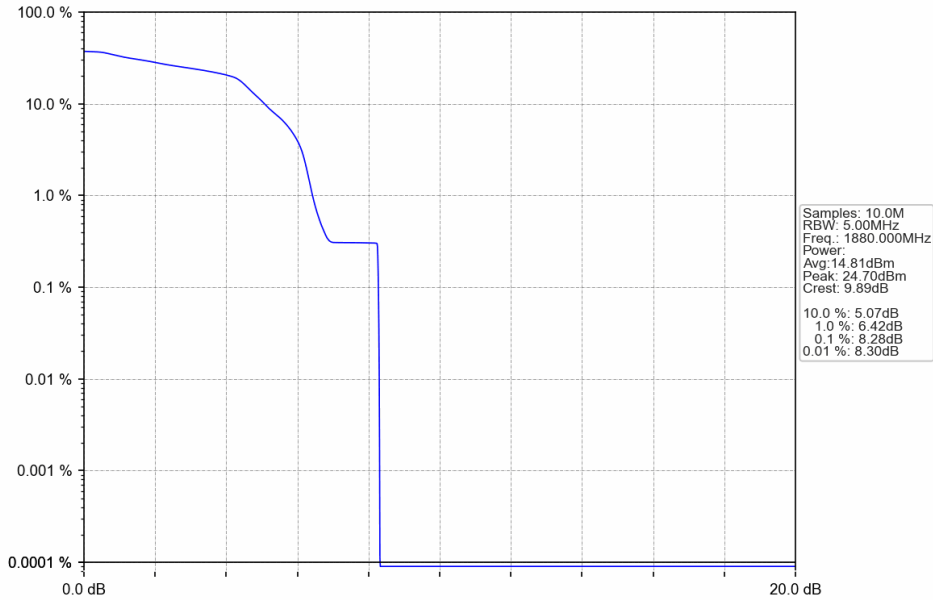
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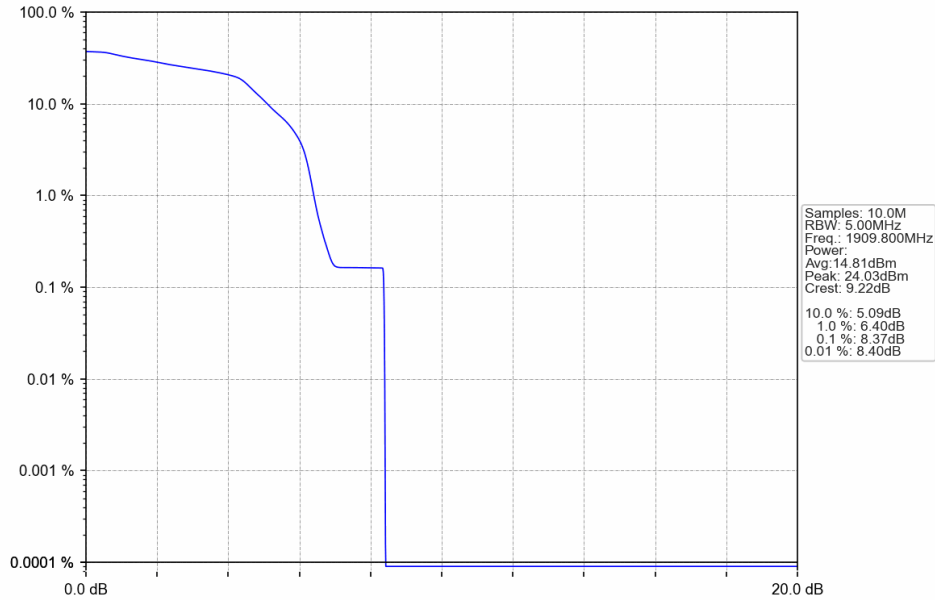
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### 5. Spurious Emission & Band Edges

#### 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
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass

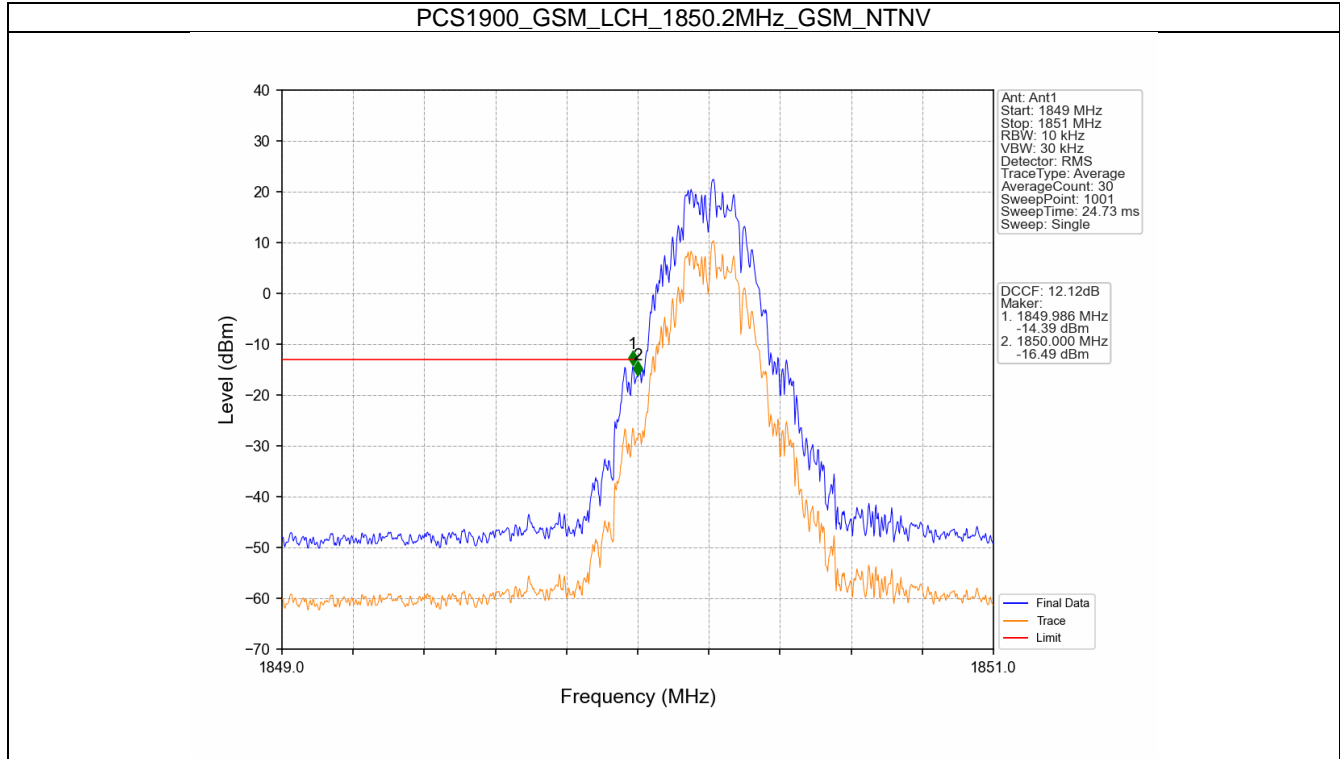


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5.1.2 Test Graph



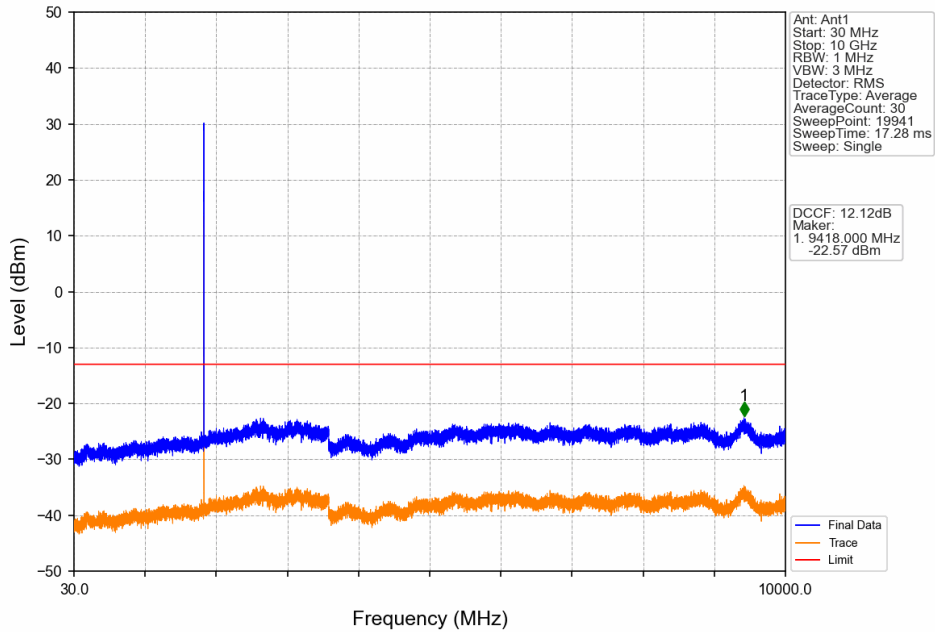
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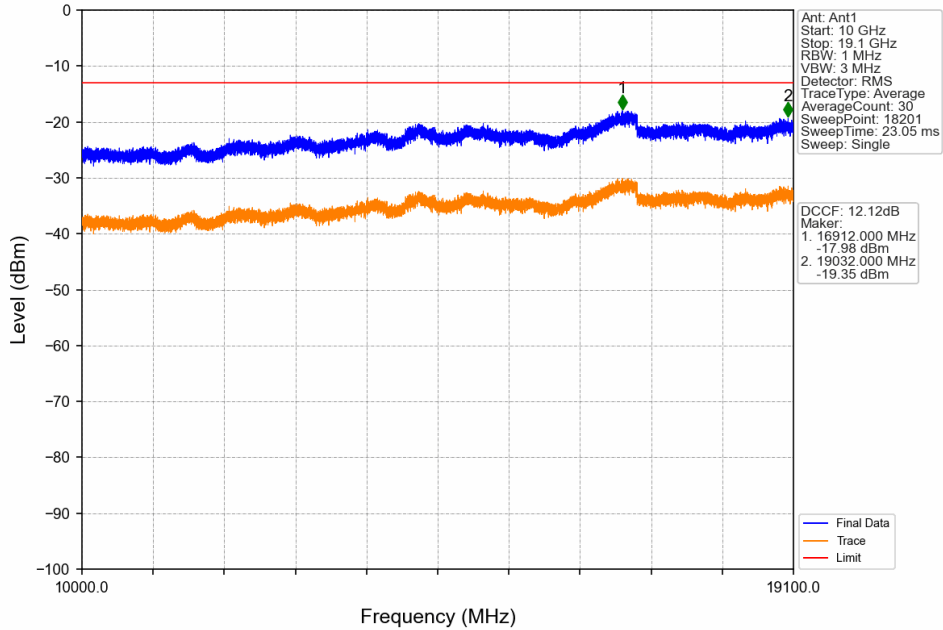


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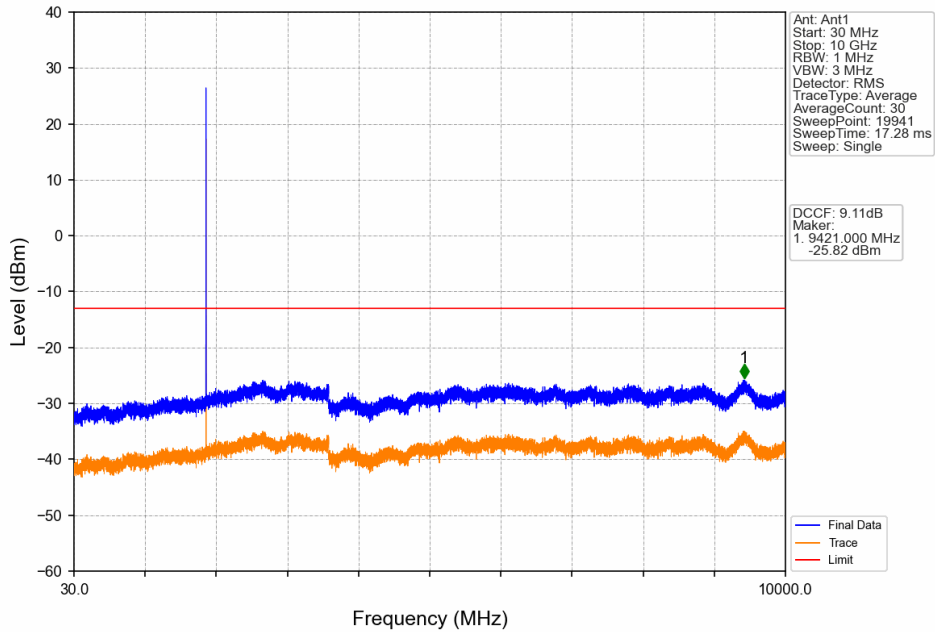


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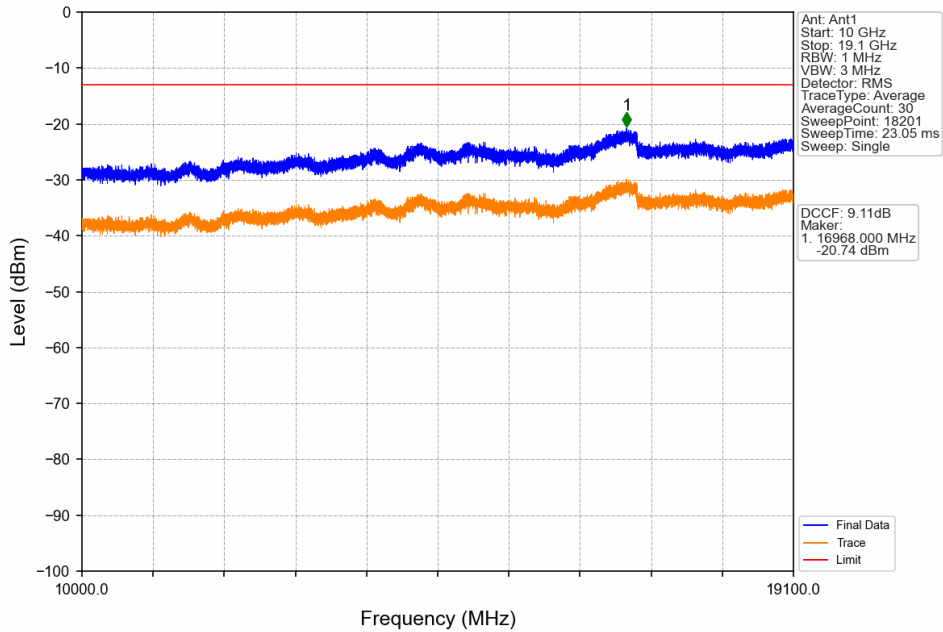
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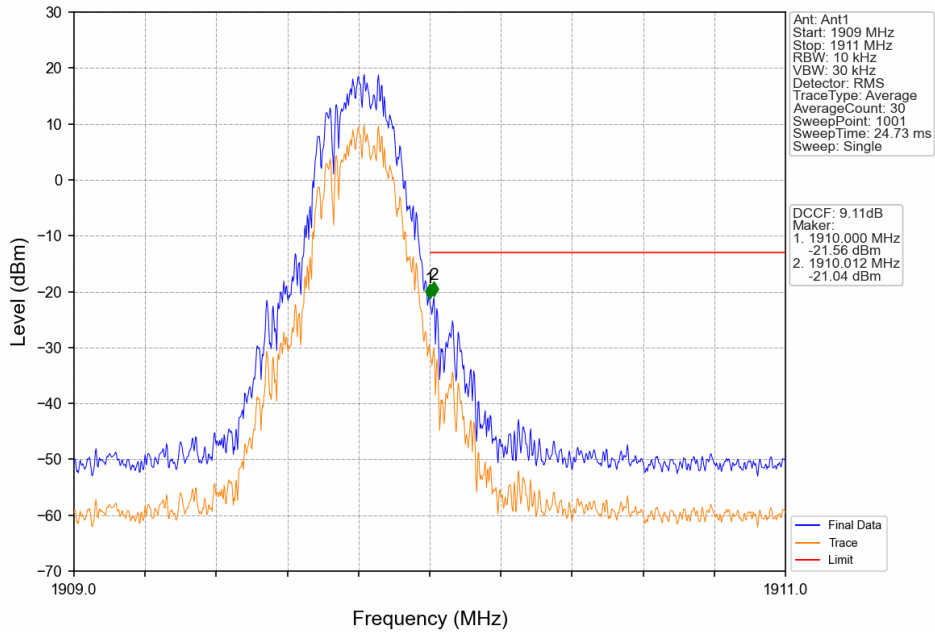


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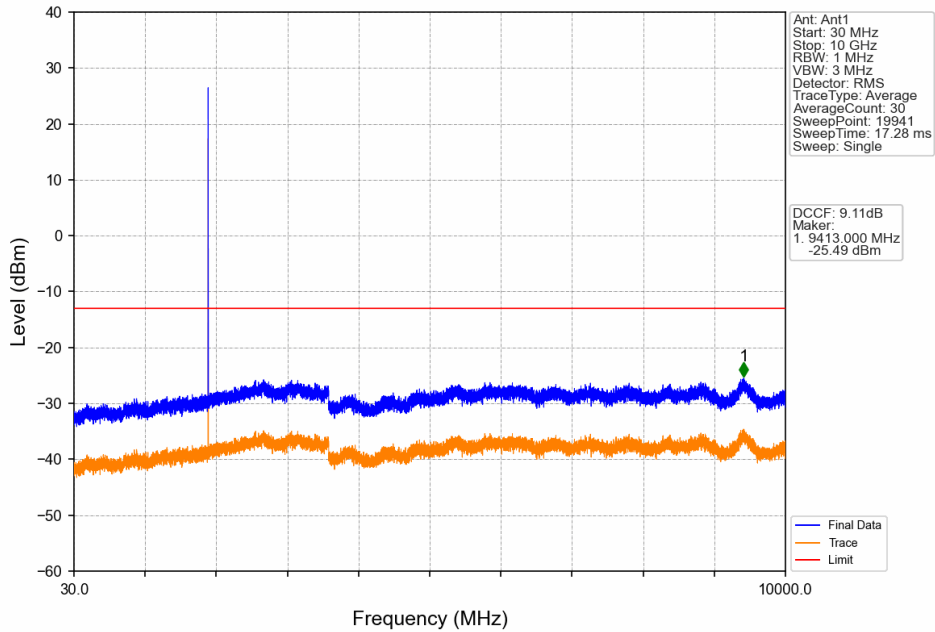
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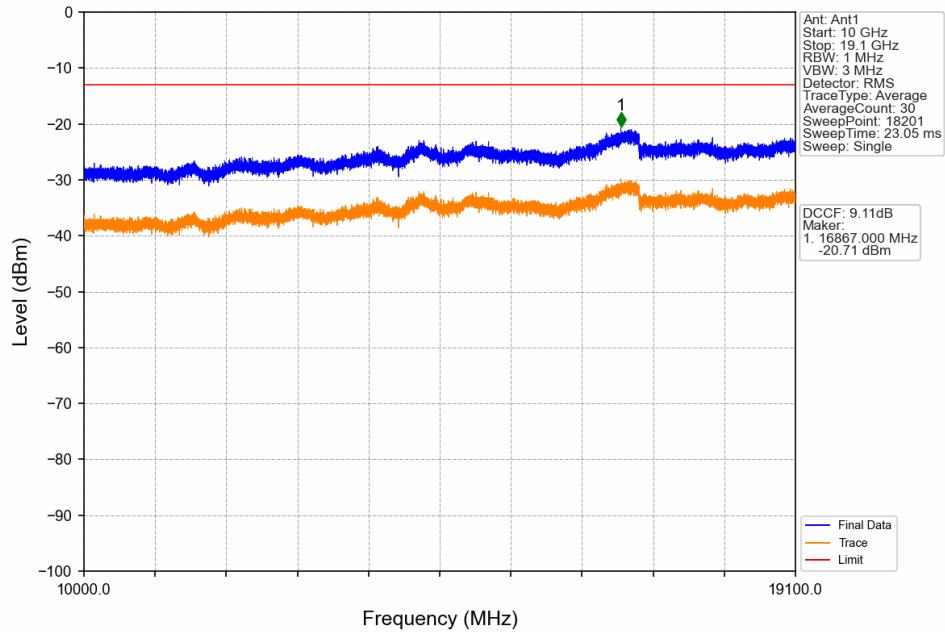


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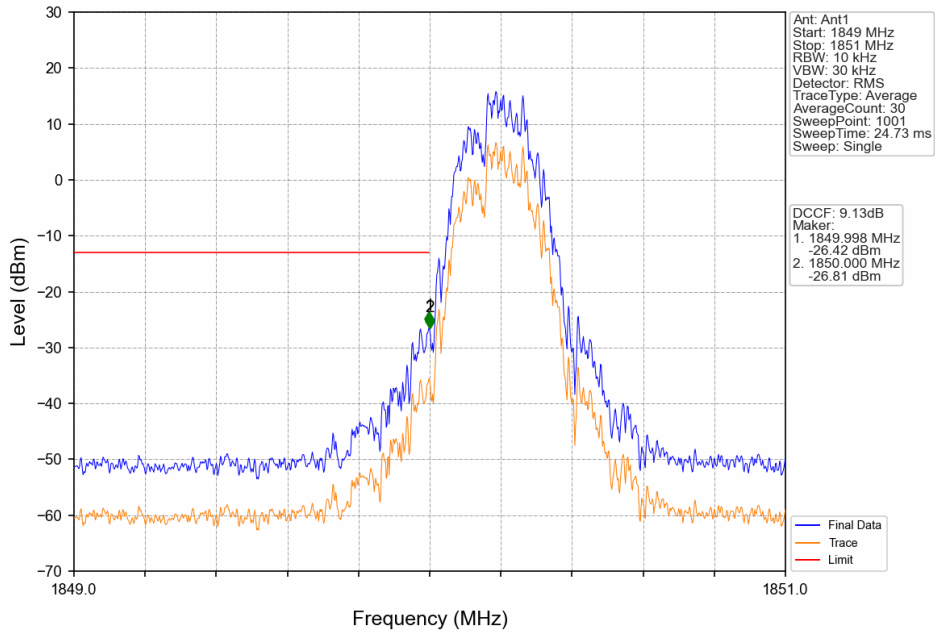


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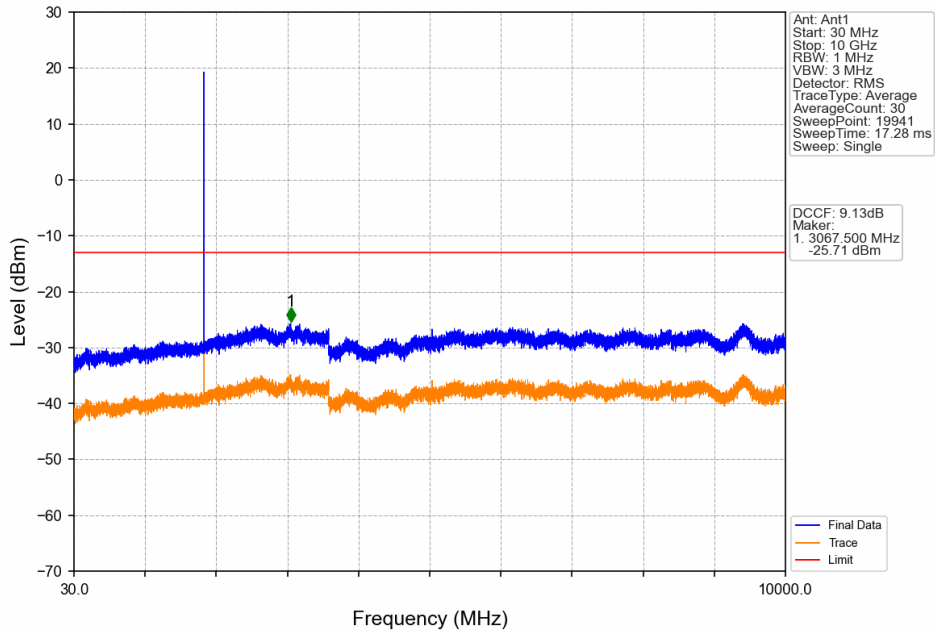


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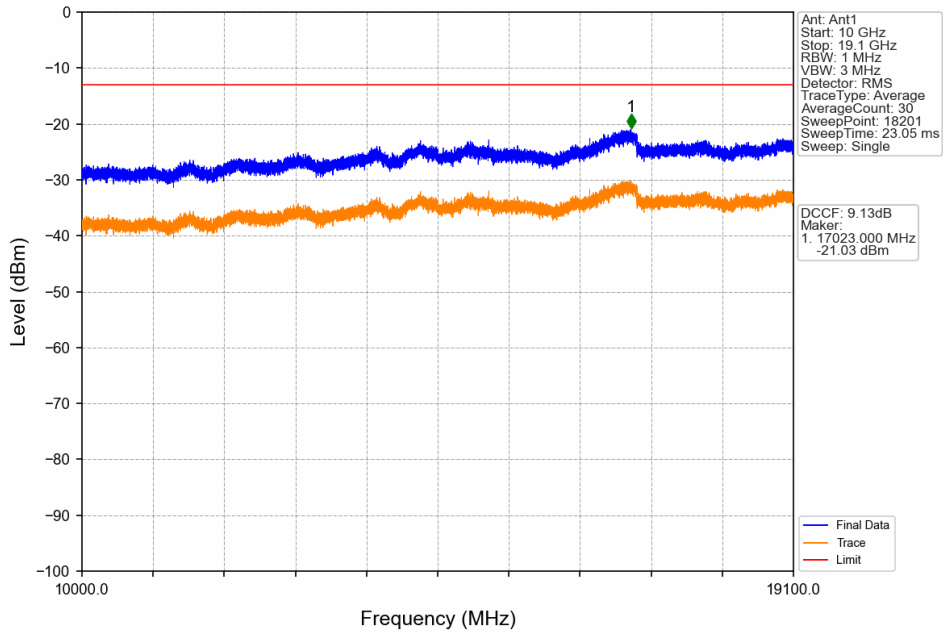


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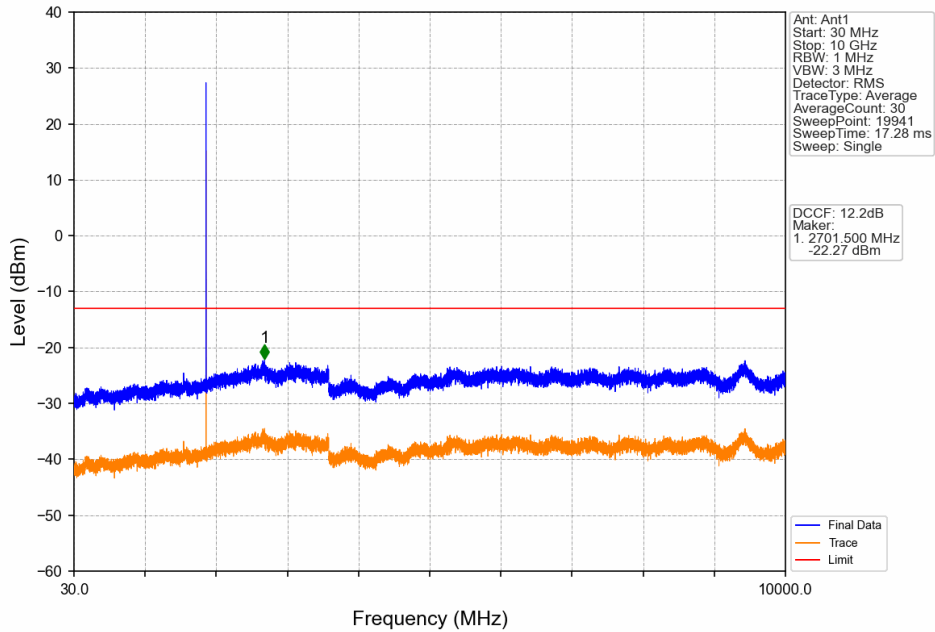


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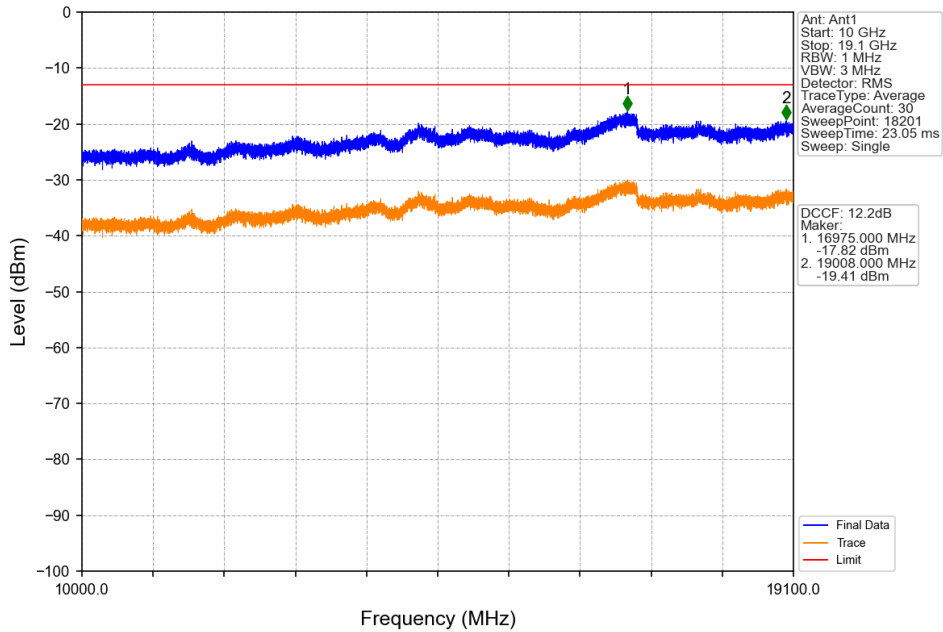
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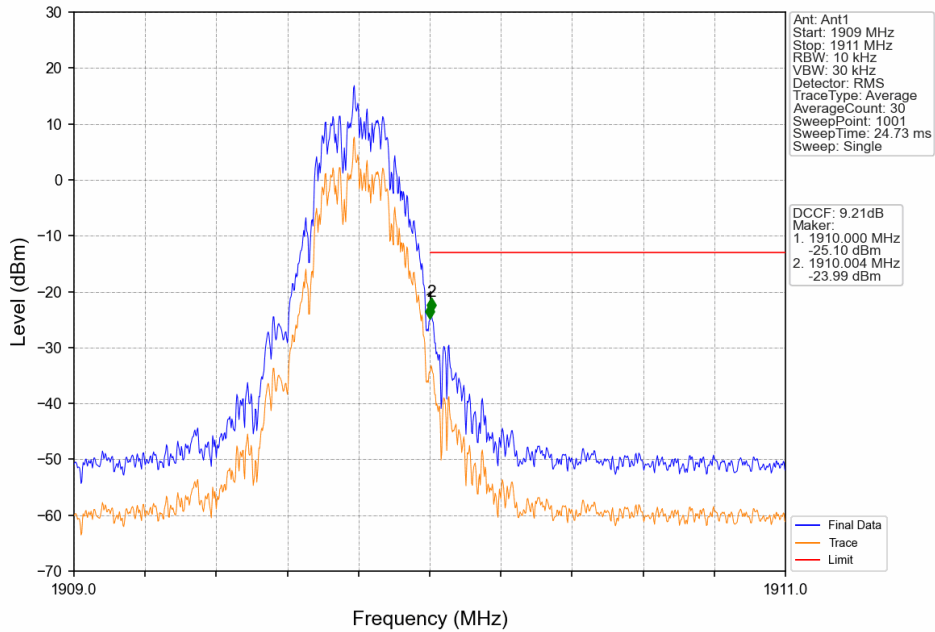


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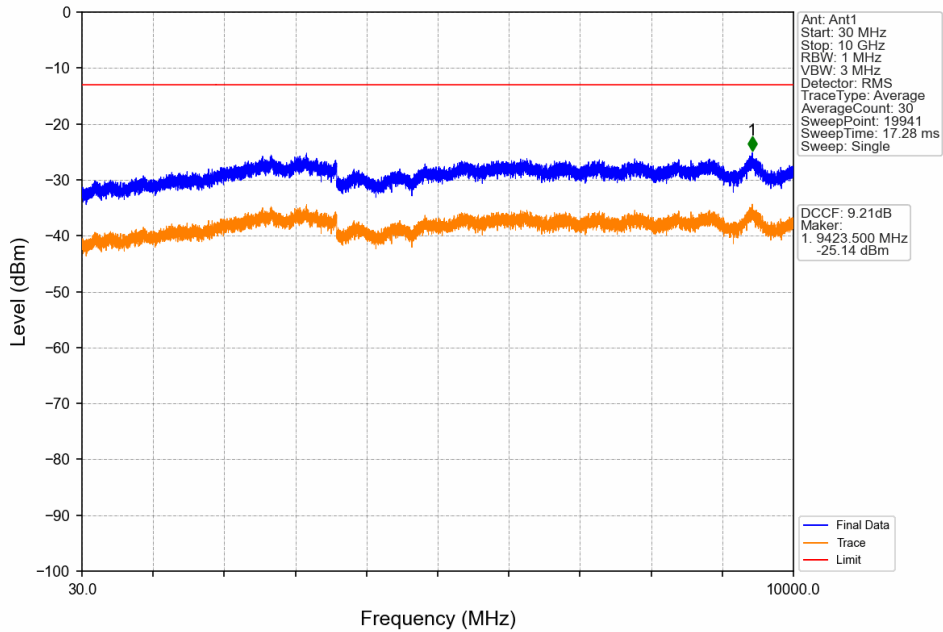
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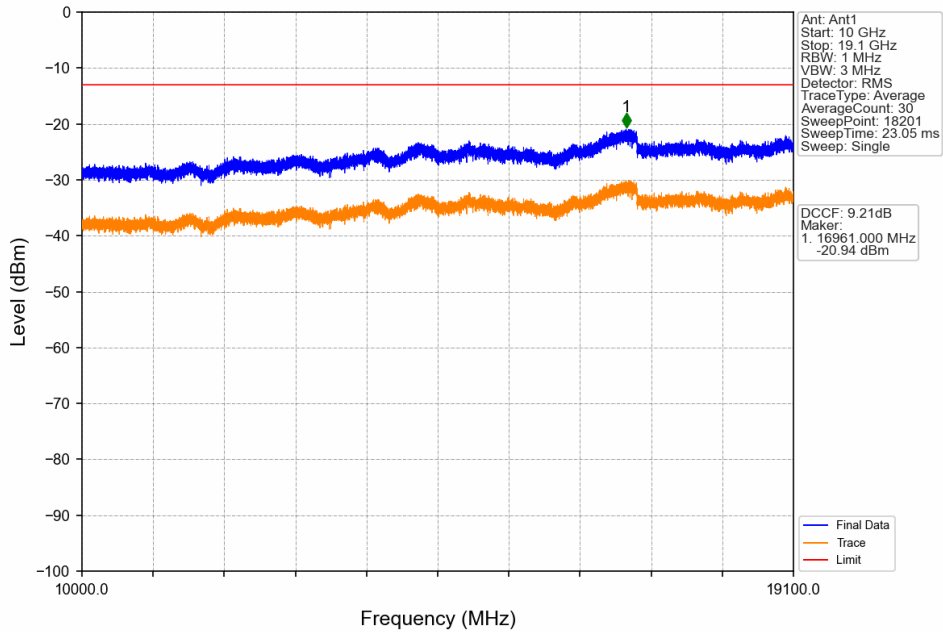


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### 6. Field Strength of Spurious Radiation

Test Band = GSM1900\_  
 Test Channel = Low

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	40.03	-45.50	28.80	-71.93	-13.00	58.93	Horizontal
2	5550.6000	39.15	-45.15	32.61	-68.65	-13.00	55.65	Horizontal
3	7400.8000	37.74	-43.41	36.32	-64.60	-13.00	51.60	Horizontal
4	9251.0000	33.83	-40.23	36.78	-64.89	-13.00	51.89	Horizontal
5	11101.2000	31.17	-37.96	38.71	-63.34	-13.00	50.34	Horizontal
6	13852.5	30.16	-35.90	40.63	-60.37	-13.00	47.37	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4000	40.09	-45.50	28.80	-71.87	-13.00	58.87	Vertical
2	5550.6000	39.41	-45.15	32.61	-68.39	-13.00	55.39	Vertical
3	7400.8000	38.26	-43.41	36.32	-64.08	-13.00	51.08	Vertical
4	9251.0000	34.39	-40.23	36.78	-64.33	-13.00	51.33	Vertical
5	11101.2000	30.42	-37.96	38.71	-64.09	-13.00	51.09	Vertical
6	13728	31.12	-36.23	40.41	-59.96	-13.00	46.96	Vertical



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Test Band = GSM1900\_
Test Channel = Mid

Data List table with 9 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF [dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Data List table with 9 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF [dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.



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**Test Band = GSM1900\_**  
**Test Channel = High**

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	40.56	-45.99	28.92	-71.77	-13.00	58.77	Horizontal
2	7639.2000	38.05	-43.01	36.66	-63.56	-13.00	50.56	Horizontal
3	9549.0000	33.03	-39.96	37.34	-64.84	-13.00	51.84	Horizontal
4	11458.8000	30.40	-37.33	38.75	-63.45	-13.00	50.45	Horizontal
5	13695	30.62	-36.16	40.35	-60.45	-13.00	47.45	Horizontal
6	15431.25	29.10	-34.08	40.39	-59.84	-13.00	46.84	Horizontal

Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.6000	41.29	-45.99	28.92	-71.04	-13.00	58.04	Vertical
2	7639.2000	37.38	-43.01	36.66	-64.23	-13.00	51.23	Vertical
3	9549.0000	32.92	-39.96	37.34	-64.95	-13.00	51.95	Vertical
4	11458.8000	30.23	-37.33	38.75	-63.62	-13.00	50.62	Vertical
5	13811.25	30.25	-36.29	40.56	-60.74	-13.00	47.74	Vertical
6	15852.75	28.58	-33.69	39.51	-60.86	-13.00	47.86	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) - Preamp (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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