



Report No.: SUCR240200003402
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Appendix B.2

GSM 1900



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Wireless Laboratory

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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	21.23	0.34	21.57	<=33.00	Pass
			1880	21.34	0.34	21.68	<=33.00	Pass
			1909.8	21.26	0.34	21.6	<=33.00	Pass
	EGPRS	1 TX Slot	1850.2	20.53	0.34	20.87	<=33.00	Pass
		2 TX Slots	1850.2	19.21	0.34	19.55	<=33.00	Pass
		3 TX Slots	1850.2	18.33	0.34	18.67	<=33.00	Pass
		4 TX Slots	1850.2	15.86	0.34	16.2	<=33.00	Pass
		1 TX Slot	1880	20.68	0.34	21.02	<=33.00	Pass
		2 TX Slots	1880	19.2	0.34	19.54	<=33.00	Pass
		3 TX Slots	1880	17.21	0.34	17.55	<=33.00	Pass
		4 TX Slots	1880	15.76	0.34	16.1	<=33.00	Pass
		1 TX Slot	1909.8	20.53	0.34	20.87	<=33.00	Pass
		2 TX Slots	1909.8	19.36	0.34	19.7	<=33.00	Pass
		3 TX Slots	1909.8	17.04	0.34	17.38	<=33.00	Pass
		4 TX Slots	1909.8	15.72	0.34	16.06	<=33.00	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	3.5	-6.634	-0.0036	/	Pass	
			3.87	-1.282	-0.0007	/	Pass	
			4.45	-14.655	-0.0079	/	Pass	
		-30	3.87	1.028	0.0006	/	Pass	
			-20	3.87	-5.840	-0.0032	/	Pass
				3.87	-7.312	-0.0040	/	Pass
		0	3.87	-8.362	-0.0045	/	Pass	
			10	3.87	-4.349	-0.0024	/	Pass
		30	3.87	-3.539	-0.0019	/	Pass	
			40	3.87	-8.785	-0.0047	/	Pass
		50	3.87	-9.483	-0.0051	/	Pass	
			3.87	-5.261	-0.0028	/	Pass	
		1880	20	3.87	-4.912	-0.0026	/	Pass
				4.45	-4.613	-0.0025	/	Pass
				3.87	1.898	0.0010	/	Pass
	-30		3.87	-10.623	-0.0057	/	Pass	
			-10	3.87	-3.956	-0.0021	/	Pass
	0		3.87	-3.084	-0.0016	/	Pass	
			10	3.87	-8.358	-0.0044	/	Pass
	30		3.87	-2.976	-0.0016	/	Pass	
			40	3.87	-8.838	-0.0047	/	Pass
	50		3.87	-3.270	-0.0017	/	Pass	
			3.5	-7.970	-0.0042	/	Pass	
	1909.8		20	3.87	-4.928	-0.0026	/	Pass
				4.45	-4.986	-0.0026	/	Pass
				3.87	-3.330	-0.0017	/	Pass
			-30	3.87	-9.292	-0.0049	/	Pass
		-10		3.87	-6.041	-0.0032	/	Pass
		0	3.87	-8.575	-0.0045	/	Pass	
			10	3.87	-9.253	-0.0048	/	Pass
30		3.87	-4.889	-0.0026	/	Pass		
		40	3.87	-4.266	-0.0022	/	Pass	
50		3.87	-6.255	-0.0033	/	Pass		
		3.5	-8.691	-0.0047	/	Pass		
EGPRS		1850.2	20	3.87	-3.391	-0.0018	/	Pass
				4.45	-6.618	-0.0036	/	Pass
				3.87	-4.986	-0.0027	/	Pass
			-30	3.87	-10.655	-0.0058	/	Pass
	-10			3.87	-8.490	-0.0046	/	Pass



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		0	3.87	-3.907	-0.0021	/	Pass	
		10	3.87	-3.006	-0.0016	/	Pass	
		30	3.87	-1.112	-0.0006	/	Pass	
		40	3.87	-5.610	-0.0030	/	Pass	
		50	3.87	-11.108	-0.0060	/	Pass	
	1880	20	3.5	4.45	-4.842	-0.0026	/	Pass
			3.87	4.45	-6.674	-0.0036	/	Pass
			4.45	4.45	-7.786	-0.0041	/	Pass
		-30	3.87	-5.939	-0.0032	/	Pass	
		-20	3.87	-15.690	-0.0083	/	Pass	
		-10	3.87	-4.735	-0.0025	/	Pass	
		0	3.87	-4.196	-0.0022	/	Pass	
		10	3.87	-2.685	-0.0014	/	Pass	
		30	3.87	-6.871	-0.0037	/	Pass	
		40	3.87	-0.799	-0.0004	/	Pass	
	50	3.87	-8.117	-0.0043	/	Pass		
	1909.8	20	3.5	4.45	-6.072	-0.0032	/	Pass
			3.87	4.45	-12.936	-0.0068	/	Pass
			4.45	4.45	-9.501	-0.0050	/	Pass
		-30	3.87	-11.752	-0.0062	/	Pass	
-20		3.87	-8.263	-0.0043	/	Pass		
-10		3.87	-8.029	-0.0042	/	Pass		
0		3.87	-6.334	-0.0033	/	Pass		
10		3.87	-9.622	-0.0050	/	Pass		
30		3.87	-11.849	-0.0062	/	Pass		
40		3.87	-10.863	-0.0057	/	Pass		
50	3.87	-7.467	-0.0039	/	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	0.248	/	Pass
			1880	0.242	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.248	/	Pass
			1880	0.249	/	Pass
			1909.8	0.243	/	Pass

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	0.310	/	Pass
			1880	0.320	/	Pass
			1909.8	0.313	/	Pass
	EGPRS	1 TX Slot	1850.2	0.311	/	Pass
			1880	0.313	/	Pass
			1909.8	0.309	/	Pass



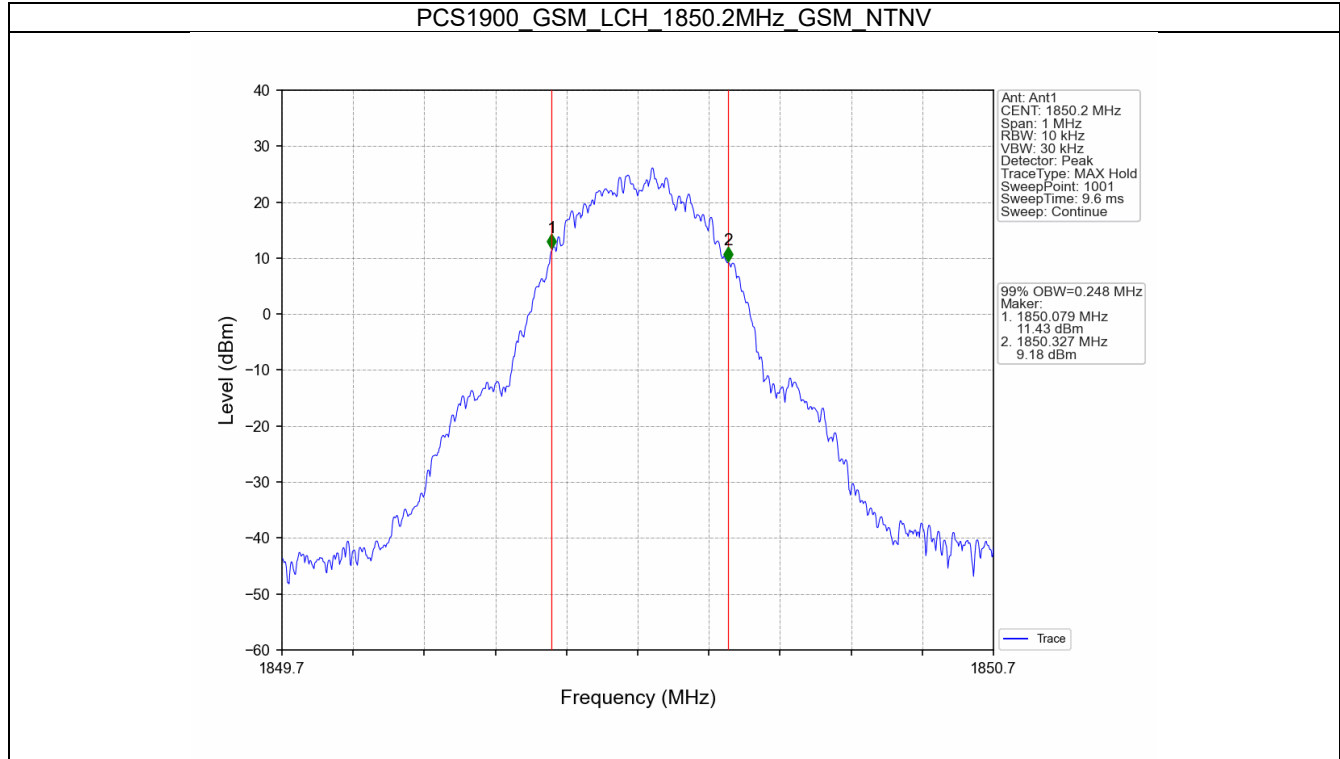
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3.1 PCS1900_OBW

3.1.2 Test Graph



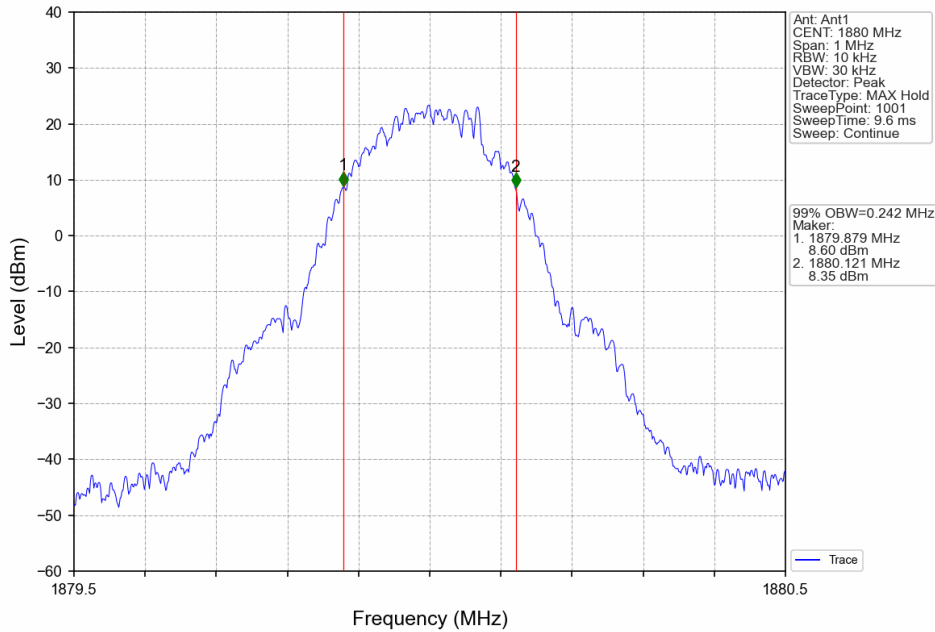
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PCS1900_GSM_MCH_1880MHz_GSM_NTNV



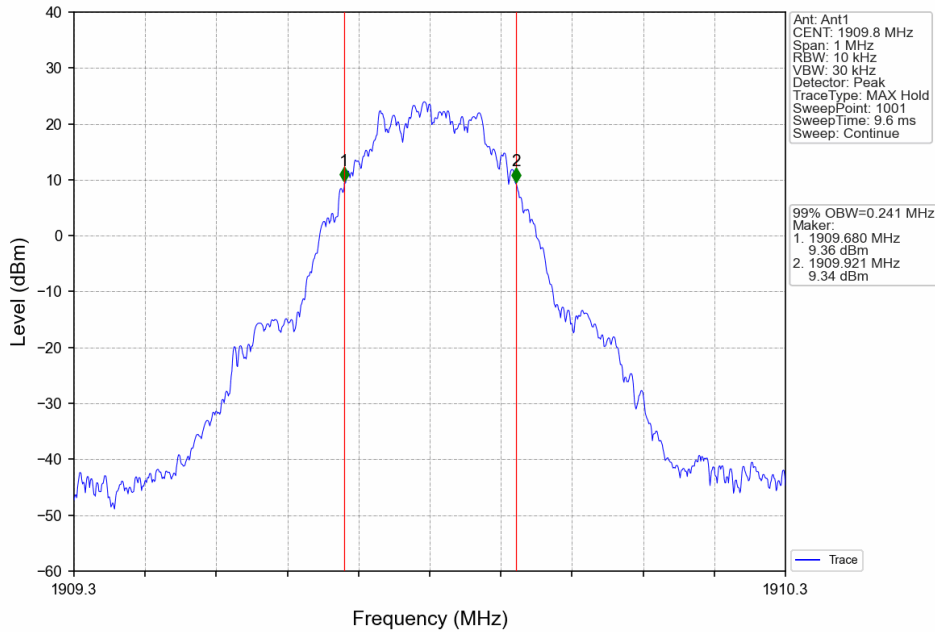
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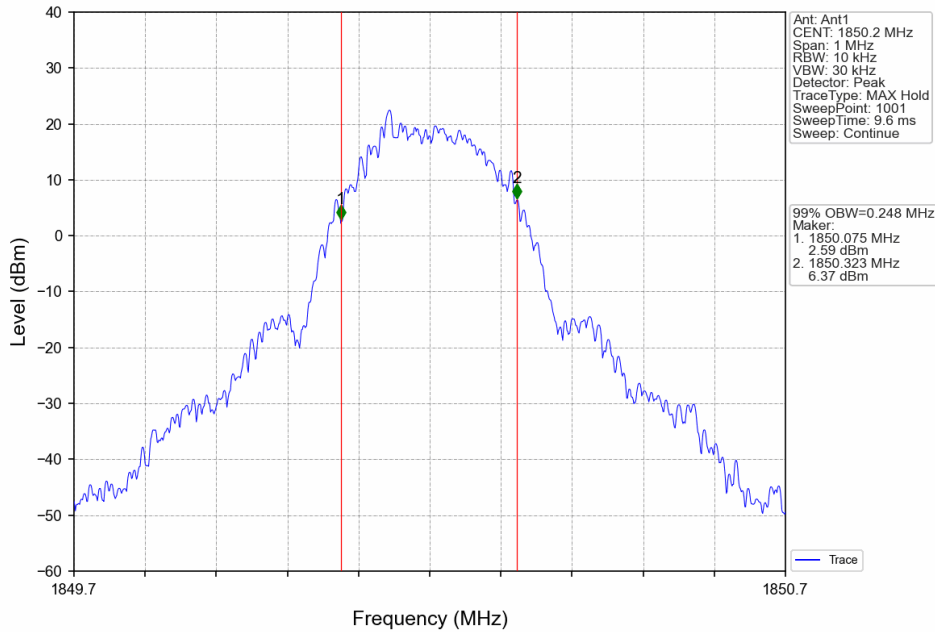
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PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV

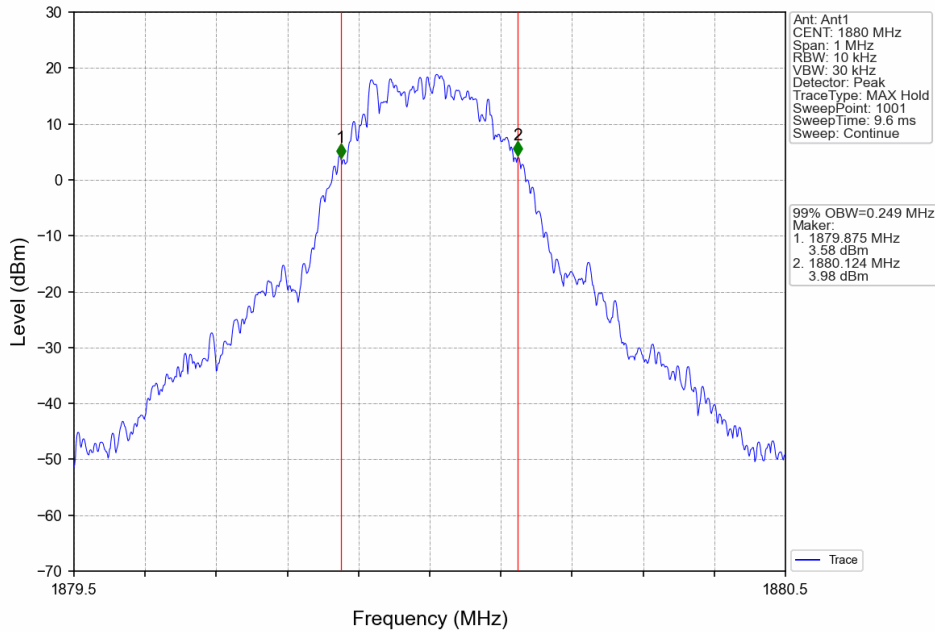


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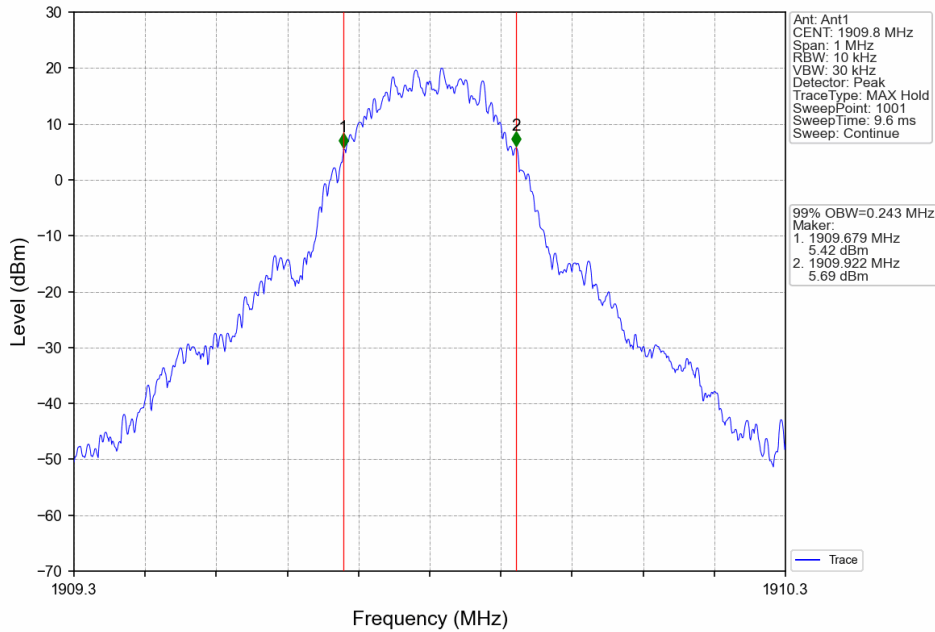


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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



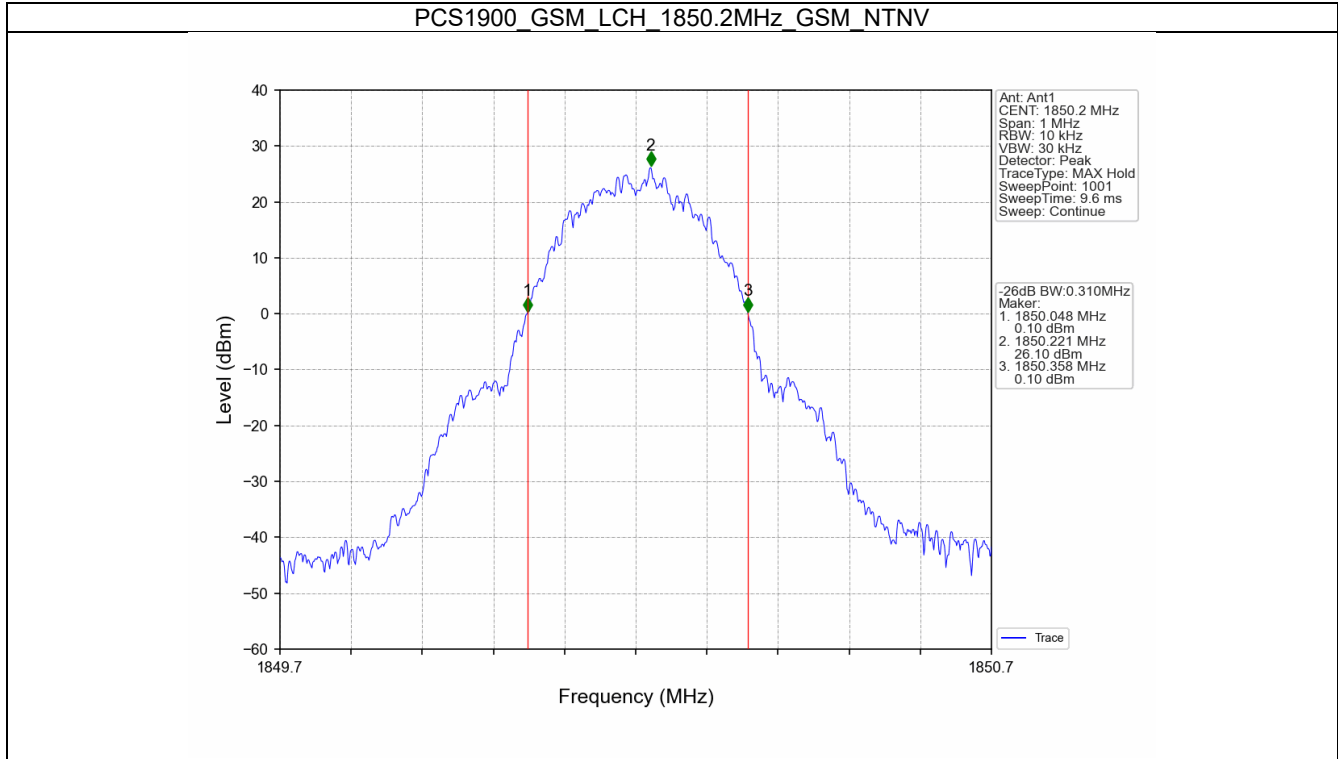
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3.2 PCS1900_XDB

3.2.2 Test Graph

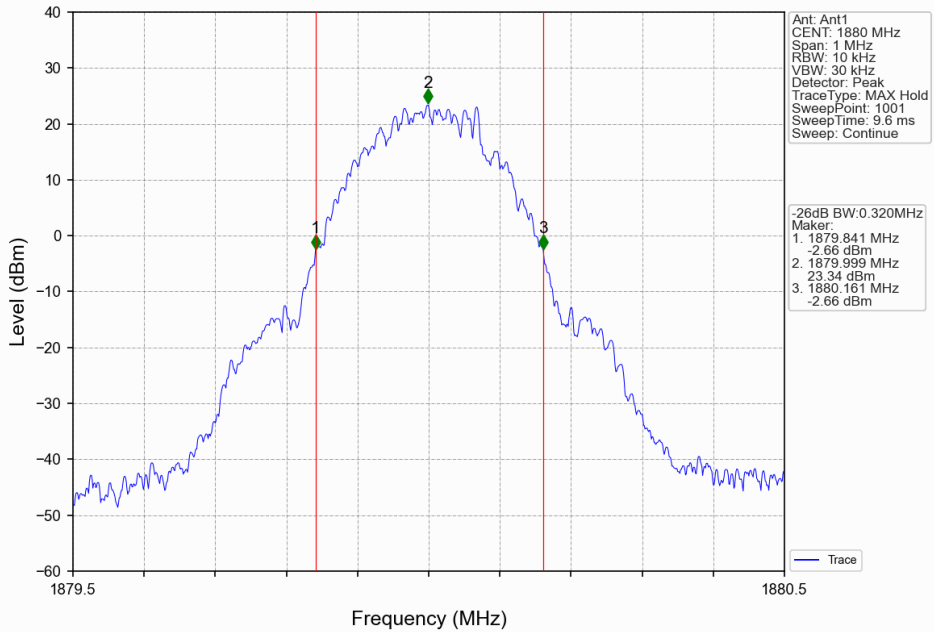


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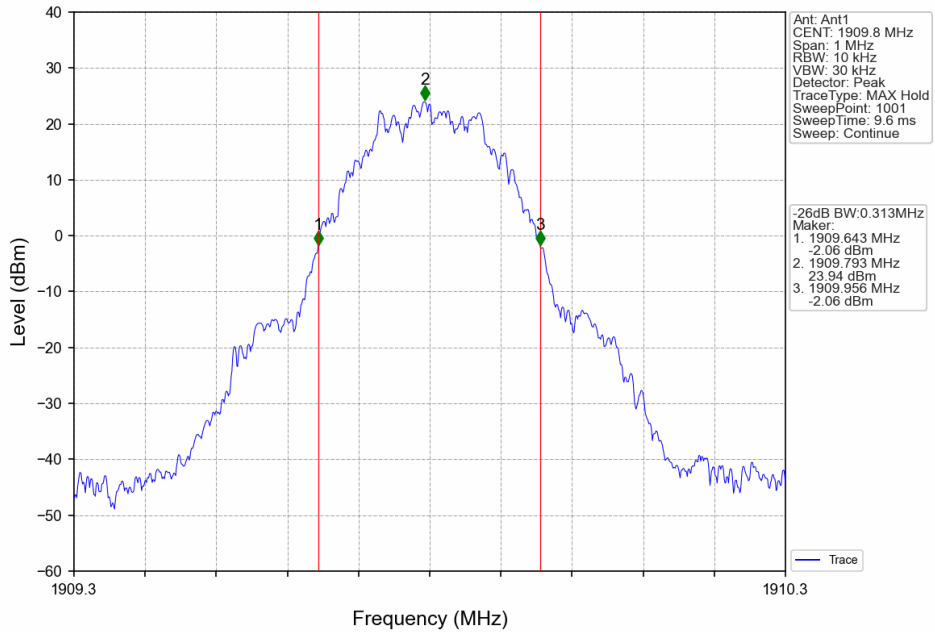
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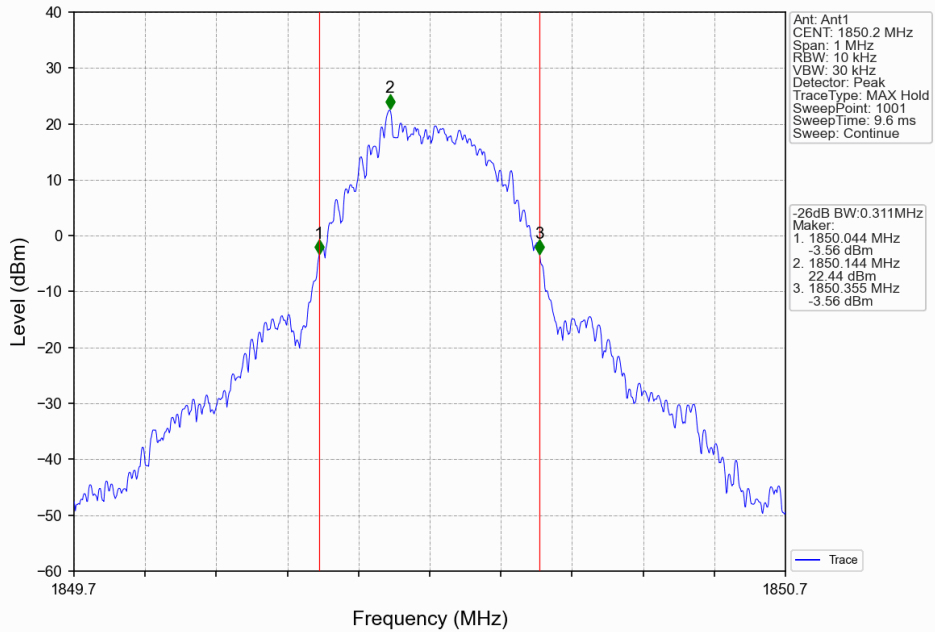
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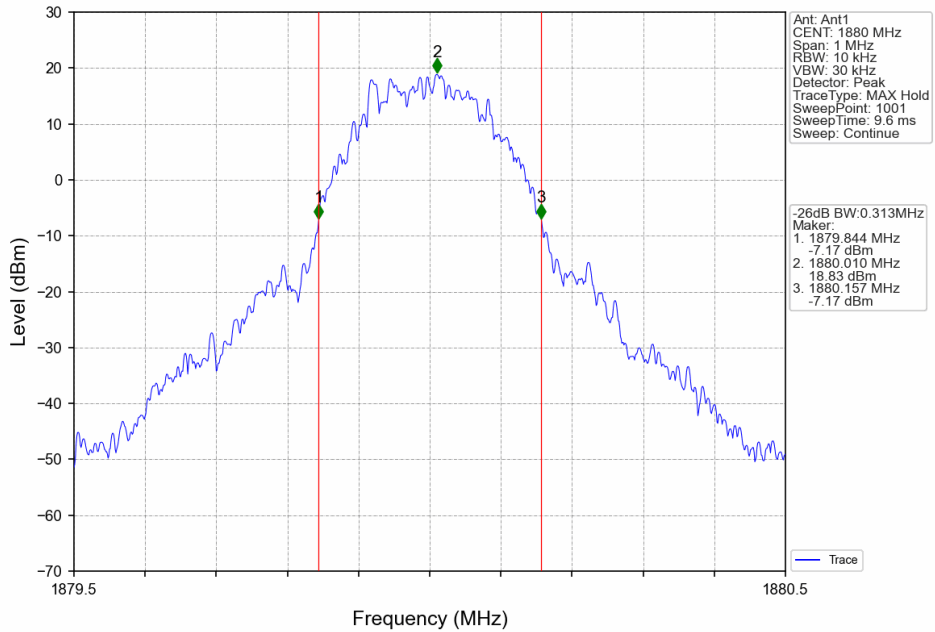


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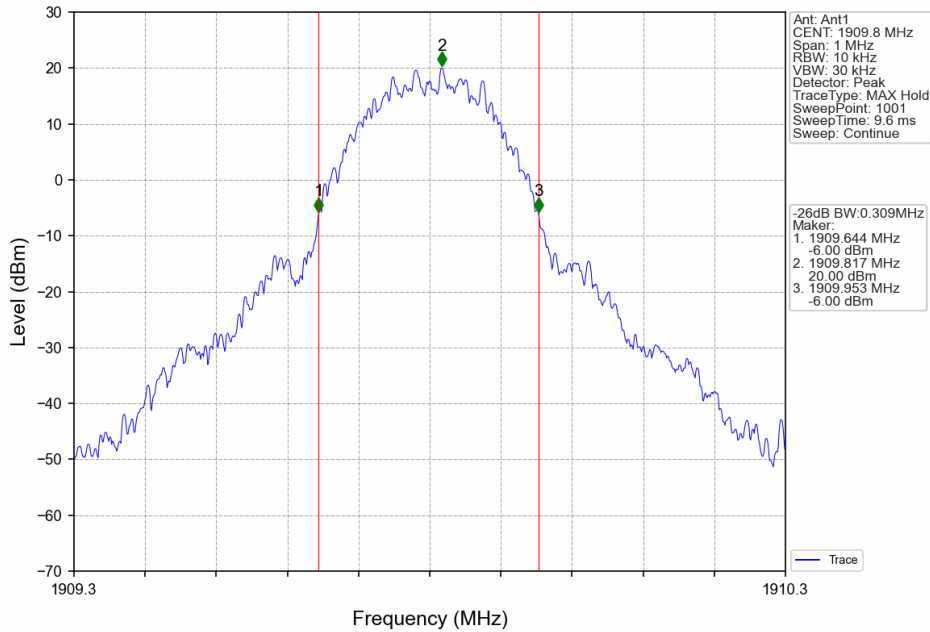


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4. Peak-Average Ratio

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	9.68	<=13	Pass
			1880	9.54	<=13	Pass
			1909.8	9.89	<=13	Pass
	EGPRS	4 TX Slots	1850.2	8.10	<=13	Pass
			1880	8.43	<=13	Pass
			1909.8	8.21	<=13	Pass



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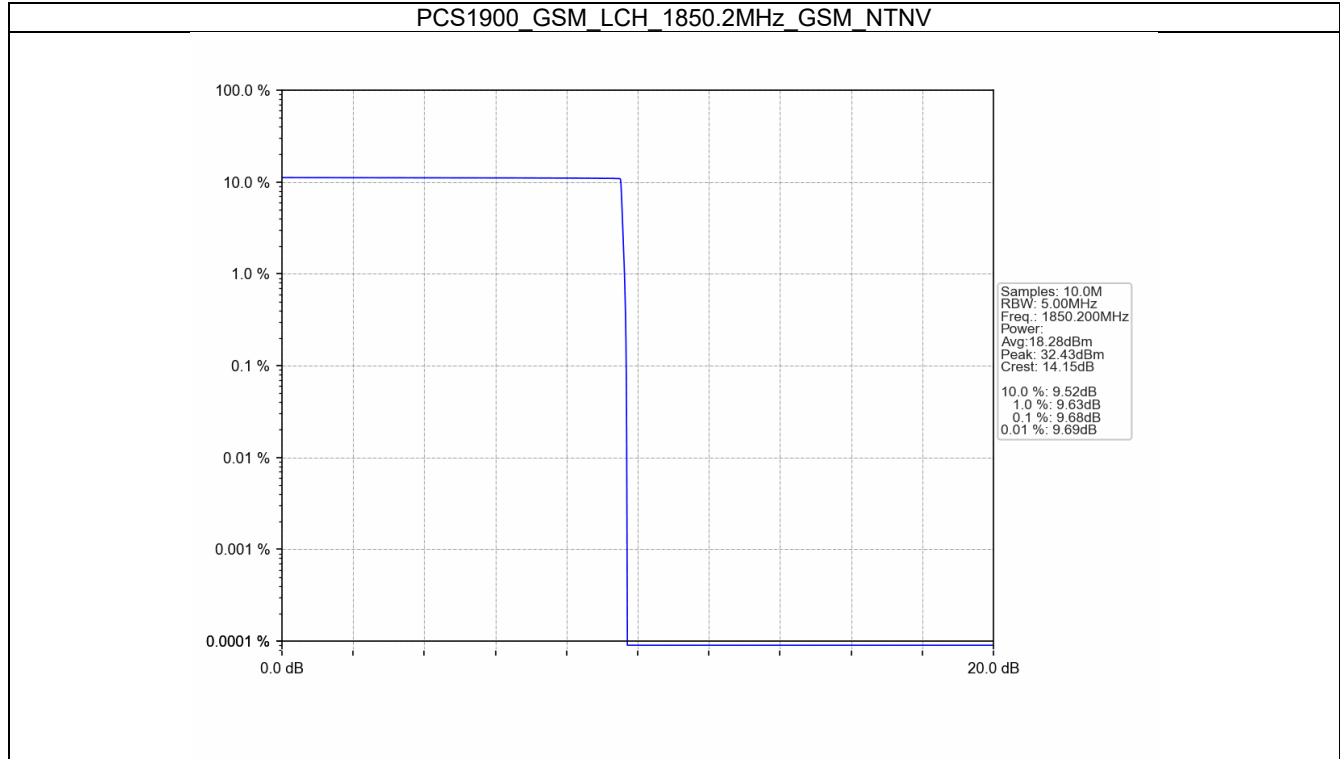
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4.1 PCS1900

4.1.2 Test Graph



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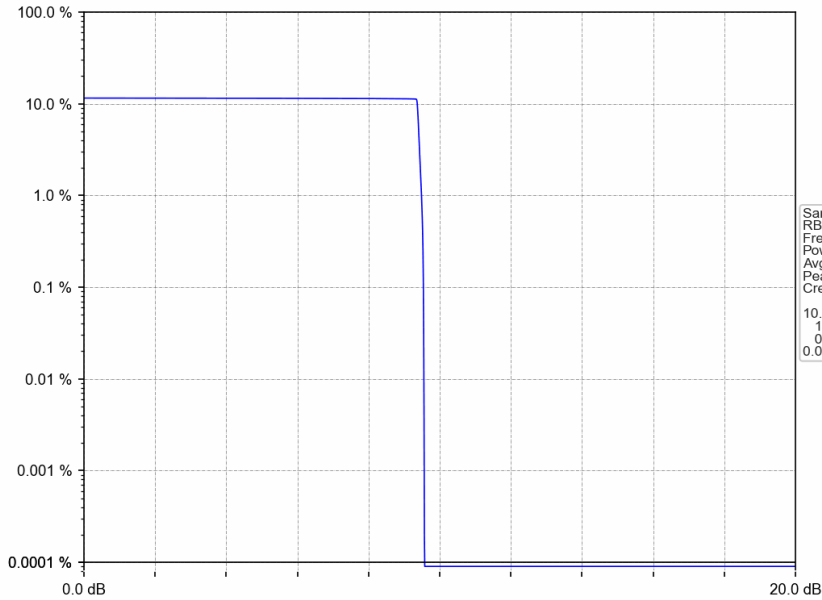


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PCS1900_GSM_MCH_1880MHz_GSM_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1880.000MHz
 Power:
 Avg: 16.38dBm
 Peak: 26.86dBm
 Crest: 10.48dB



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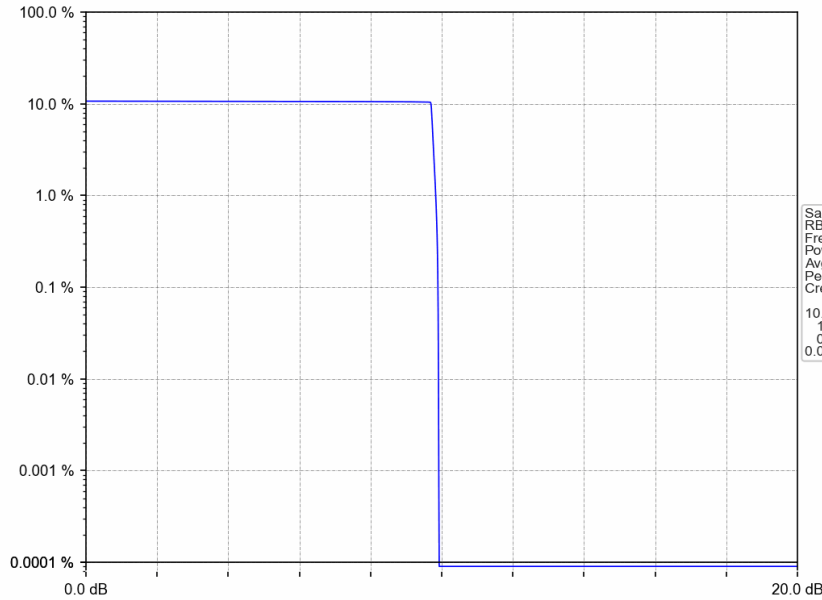


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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1909.800MHz
 Power:
 Avg: 16.54dBm
 Peak: 27.36dBm
 Crest: 10.82dB

10.0 %: 9.70dB
 1.0 %: 9.83dB
 0.1 %: 9.89dB
 0.01 %: 9.91dB



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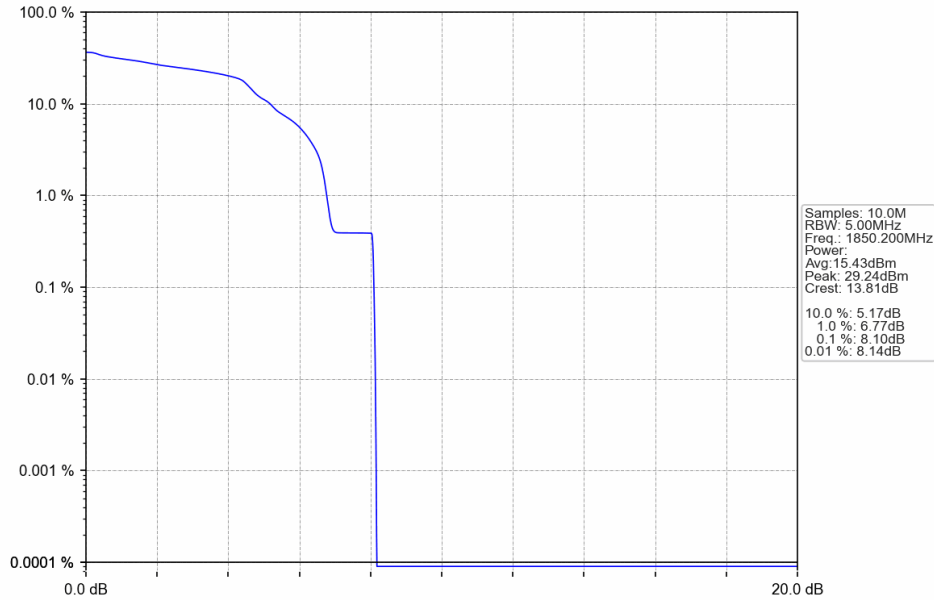


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PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



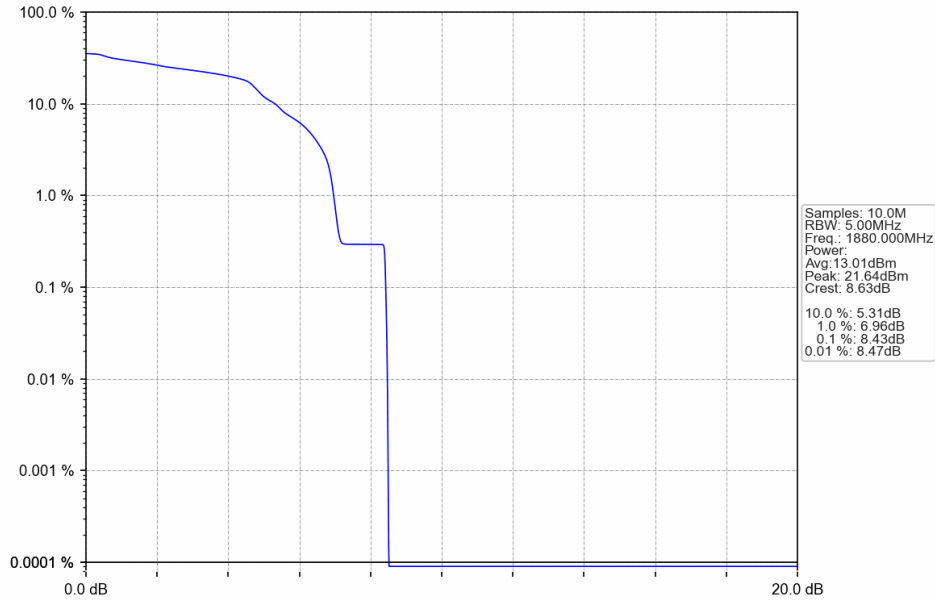
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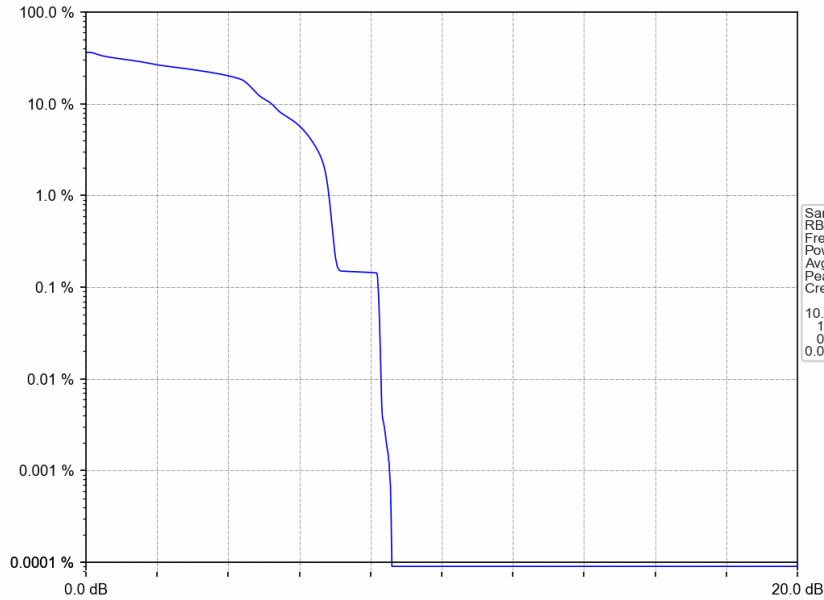


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PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



Samples: 10.0M
 RBW: 5.00MHz
 Freq.: 1909.800MHz
 Power:
 Avg: 13.72dBm
 Peak: 22.36dBm
 Crest: 8.64dB

10.0 %: 5.21dB
 1.0 %: 6.83dB
 0.1 %: 8.21dB
 0.01 %: 8.30dB



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Report No.: SUCR240200003402
Rev.: 01
Page: 25 of 44

5. Spurious Emission & Band Edges

5.1 PCS1900

5.1.1 Test Result

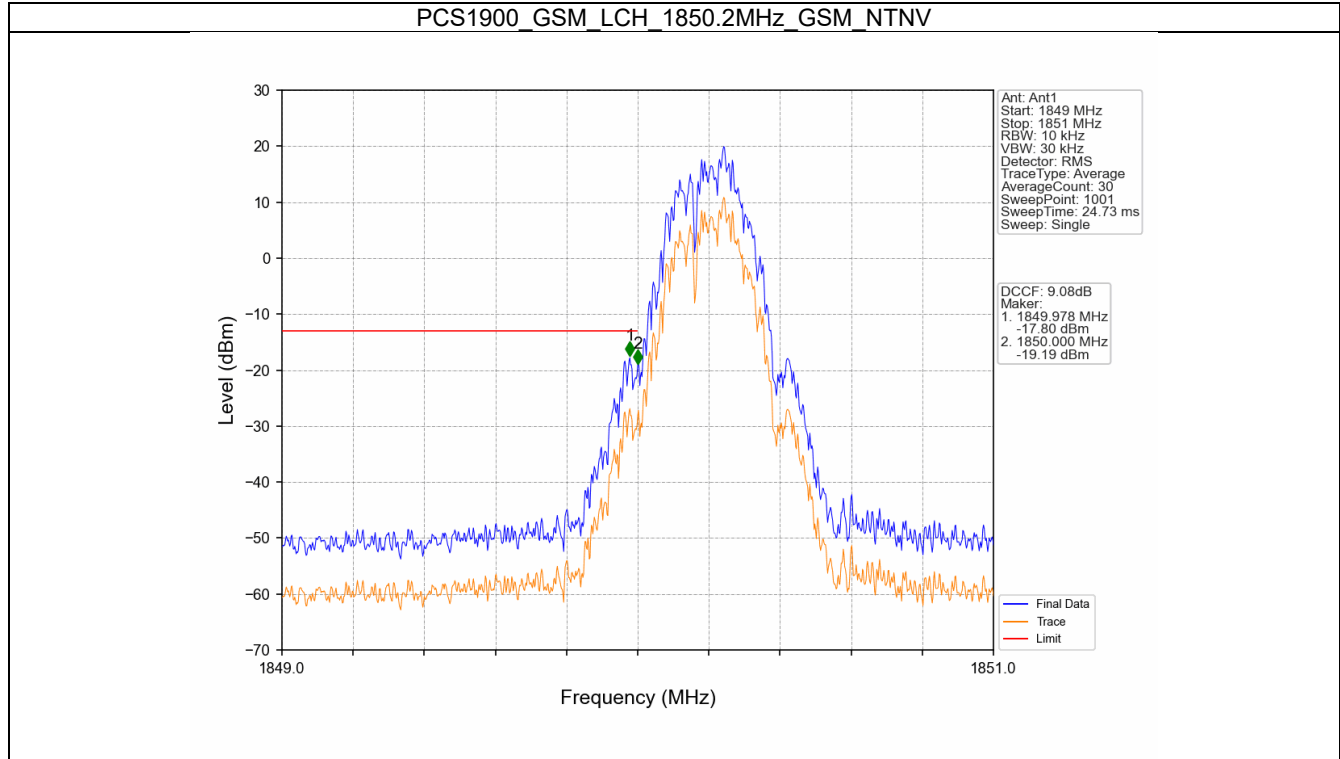
Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), Spurious Emission (Result, Limit), and Verdict. Data rows for NTVN under Mode GSM and EGPRS.



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5.1 PCS1900

5.1.2 Test Graph

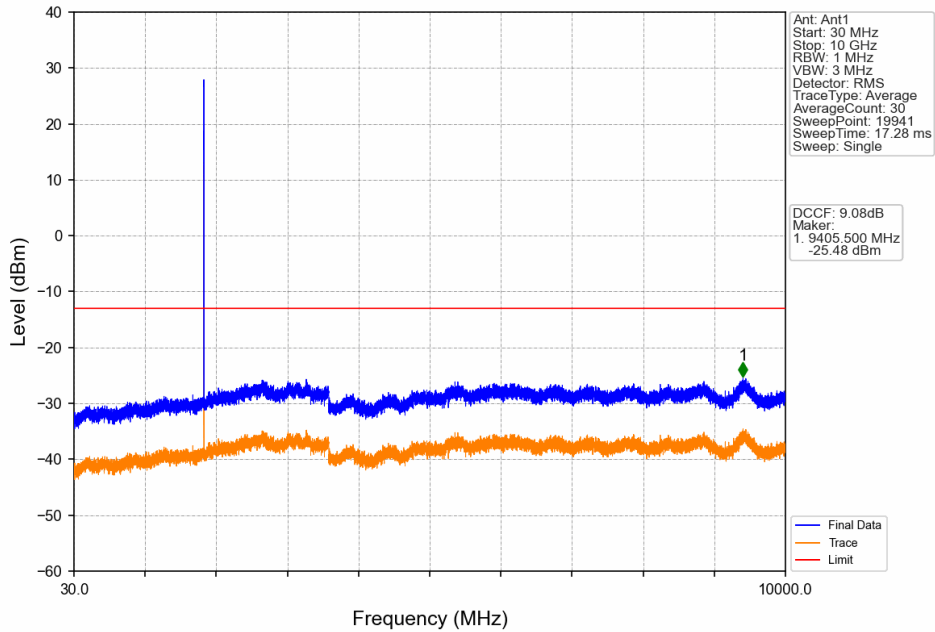


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PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV

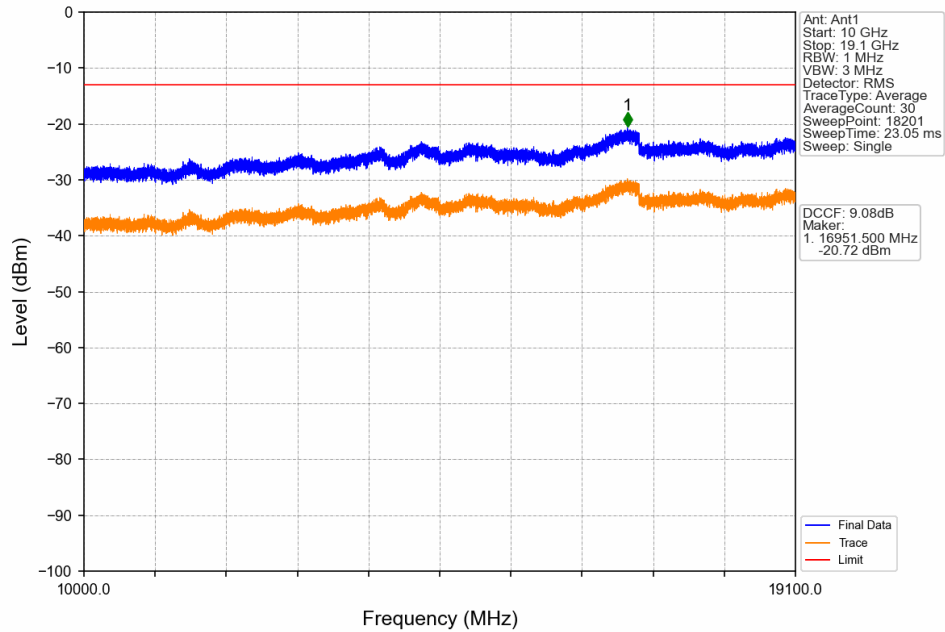


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PCS1900_GSM_LCH_1850.2MHz_GSM_NTNV

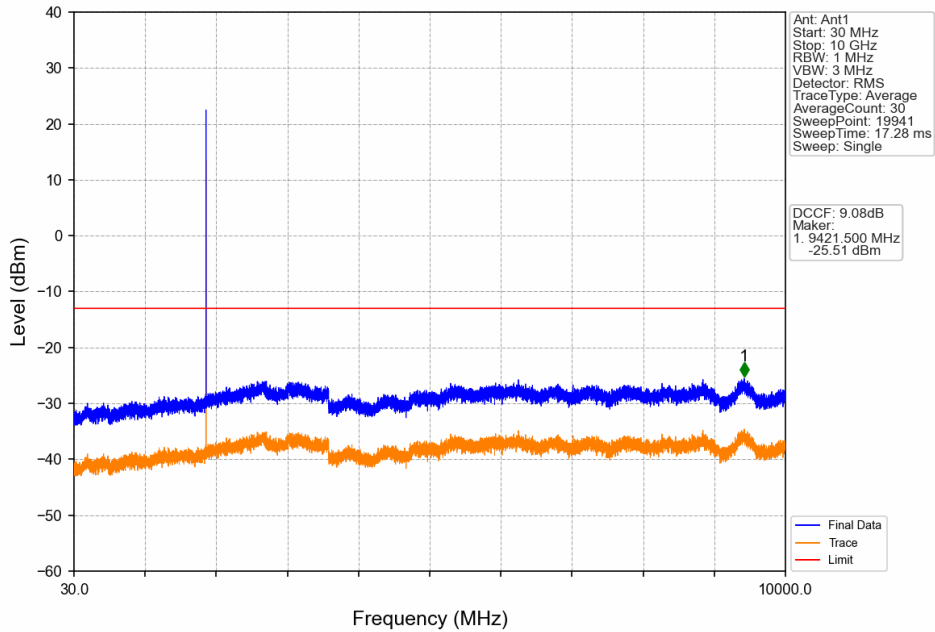


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PCS1900_GSM_MCH_1880MHz_GSM_NTNV

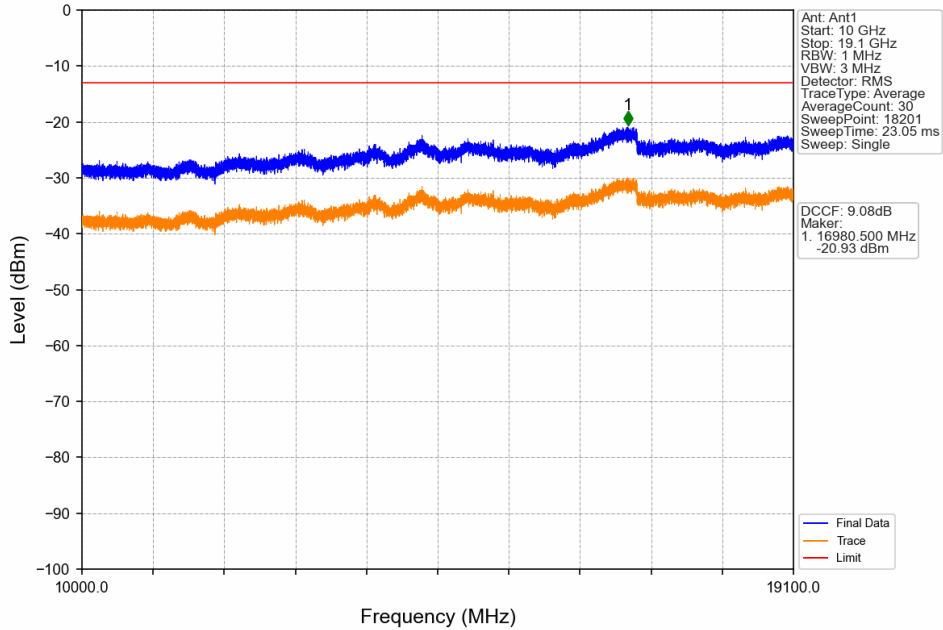


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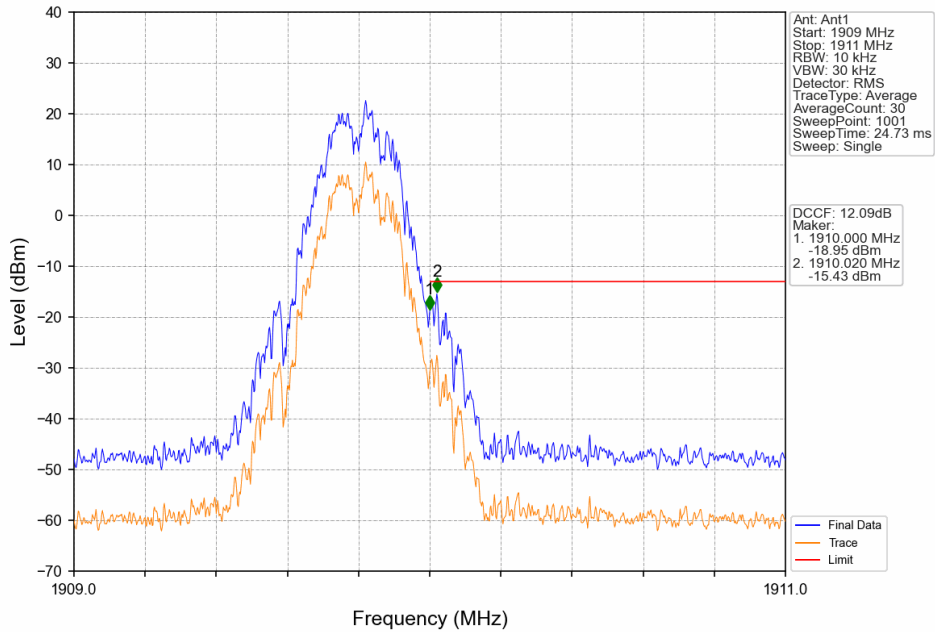


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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV

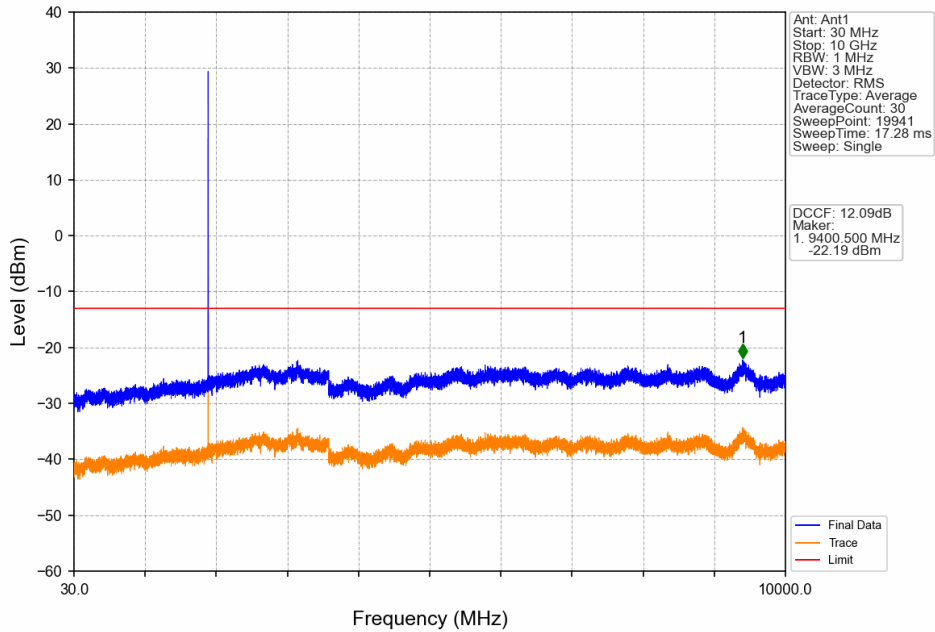


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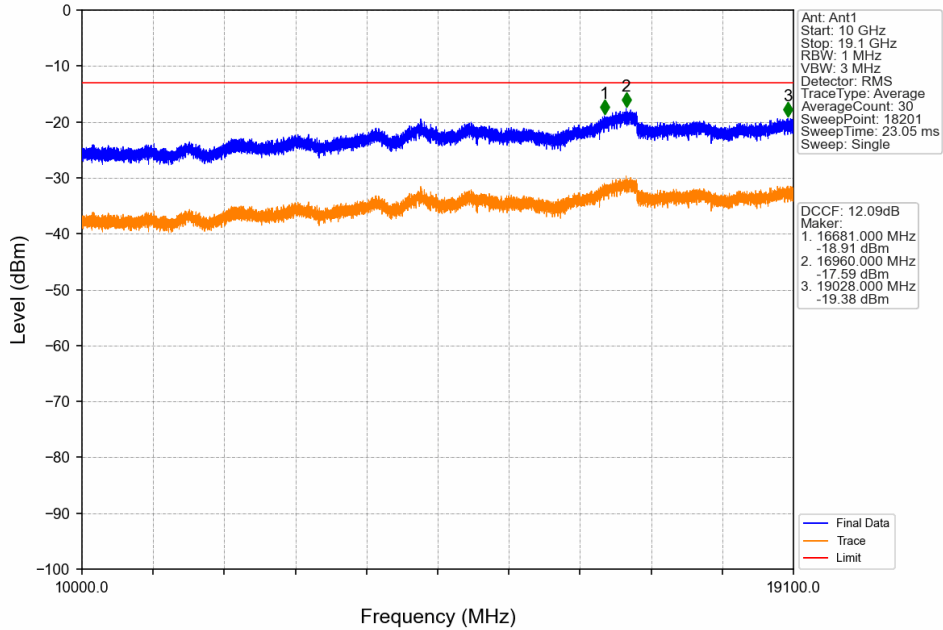


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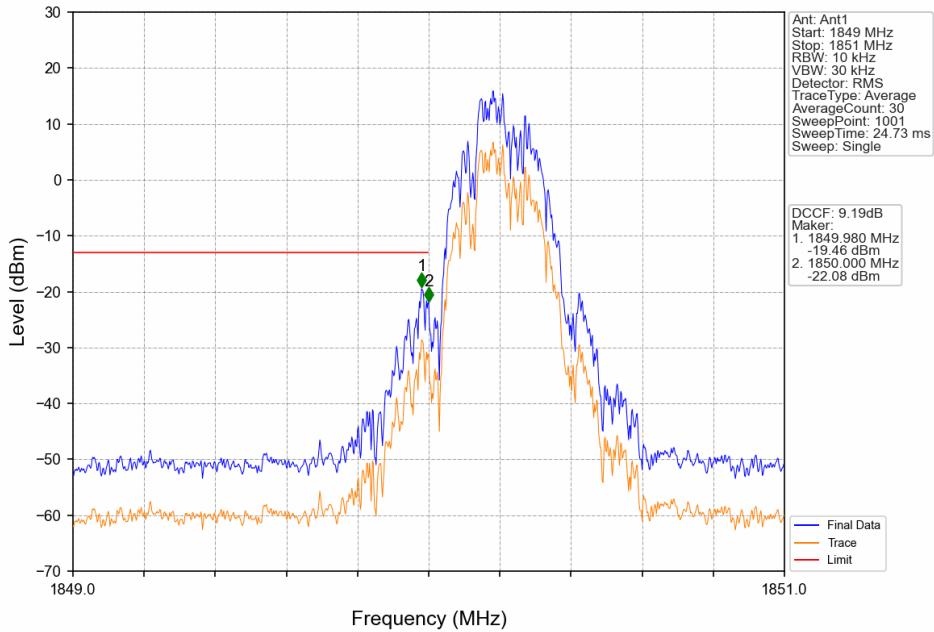


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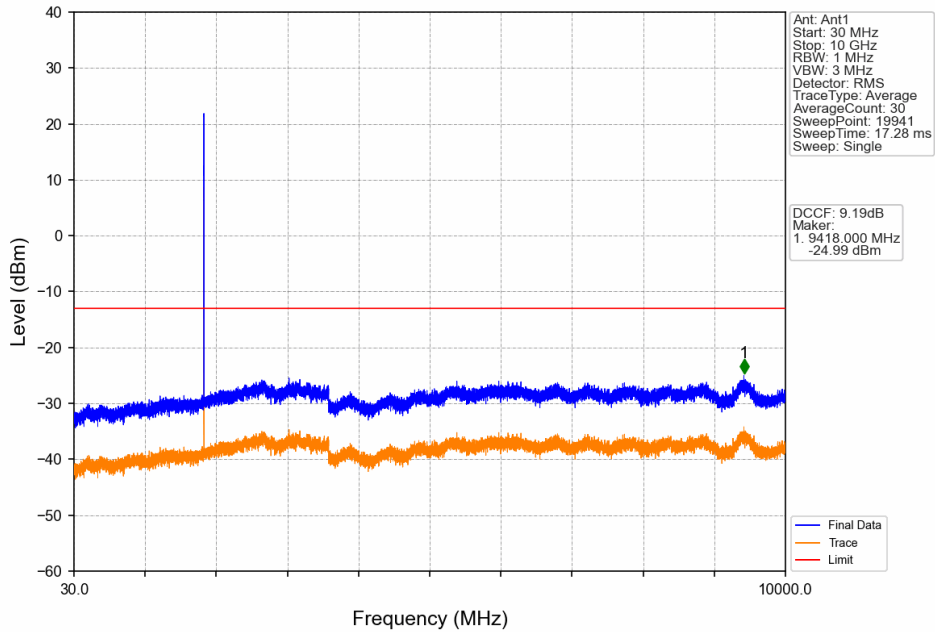


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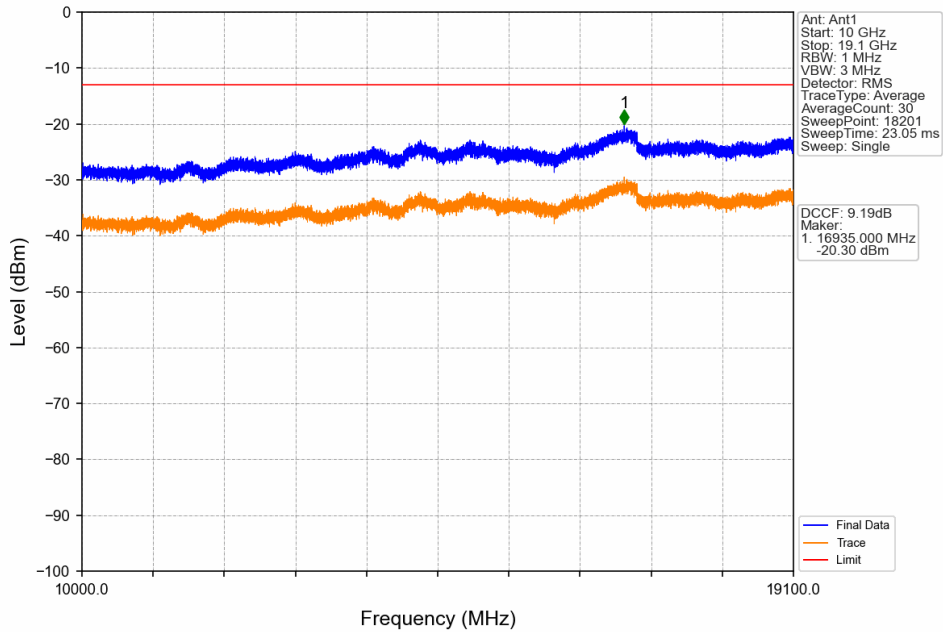


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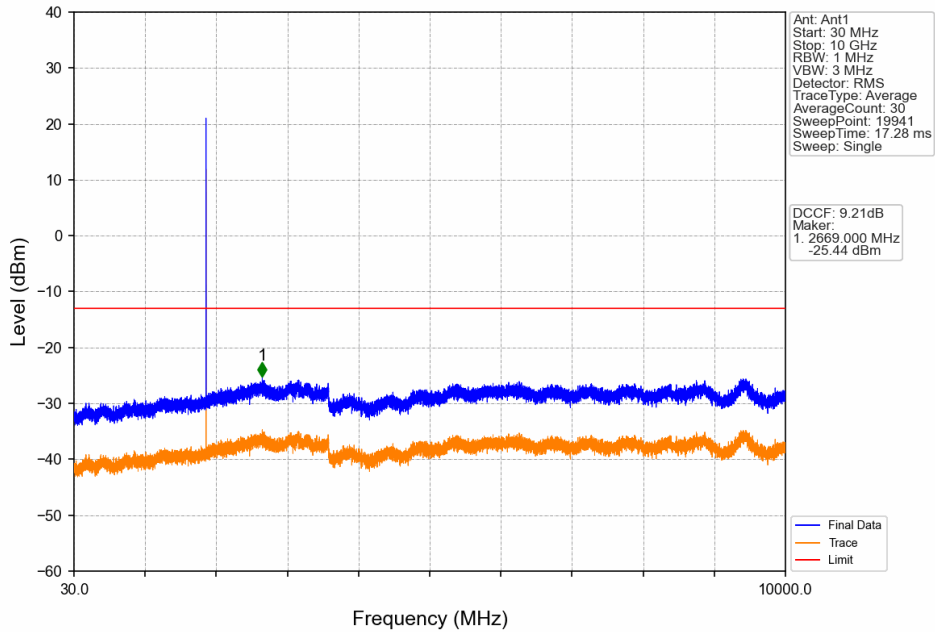


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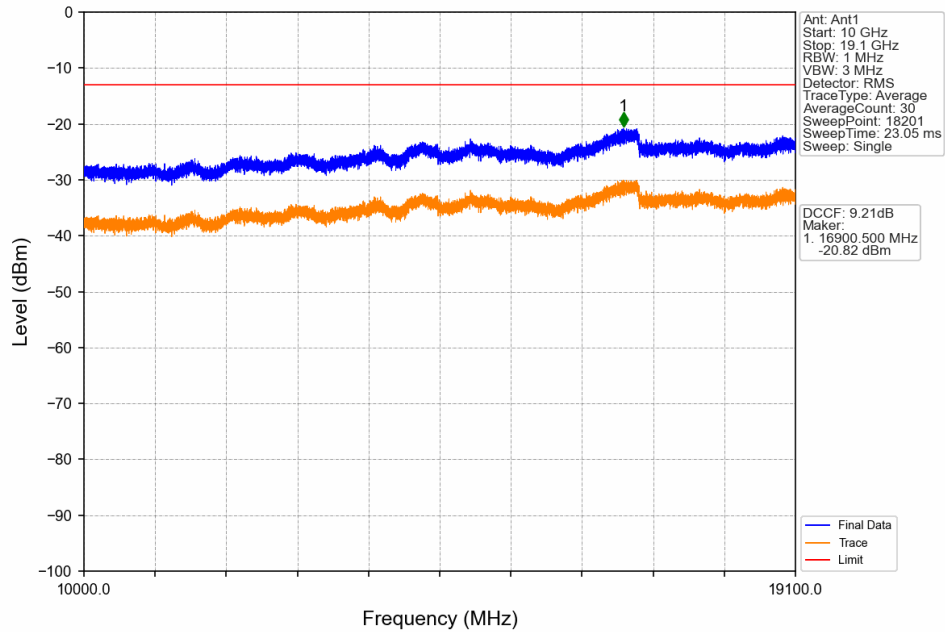


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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV

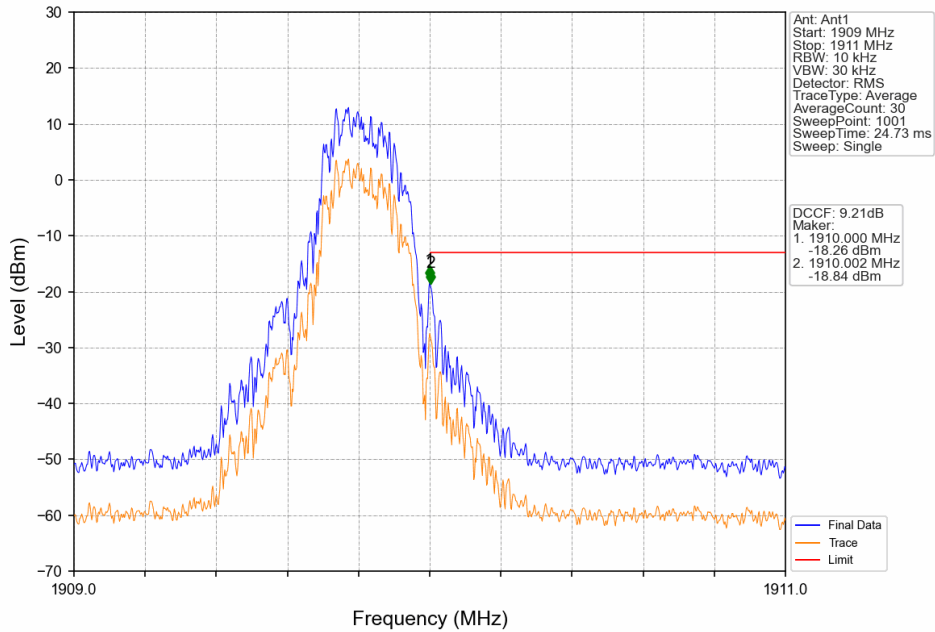


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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

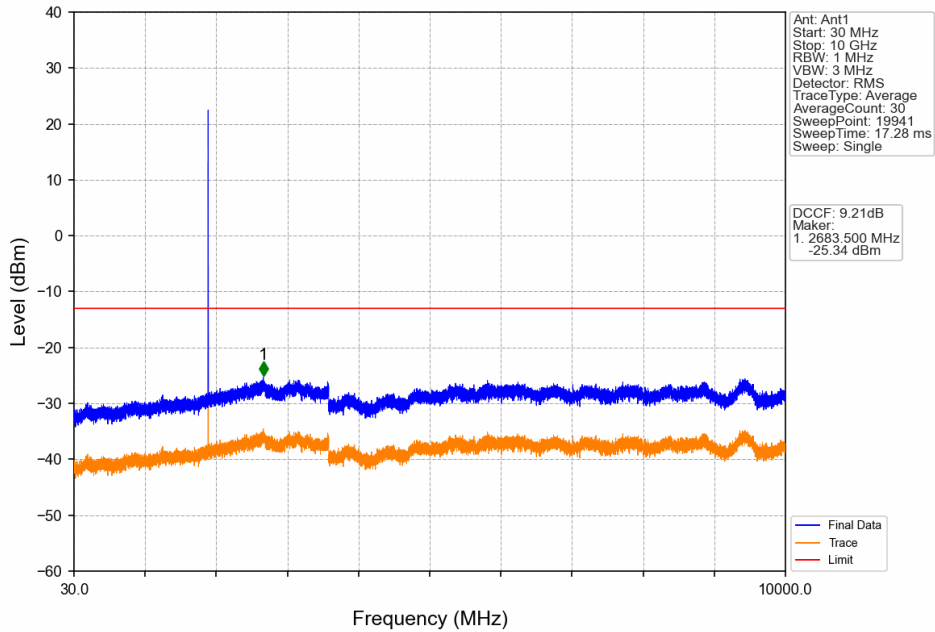


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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

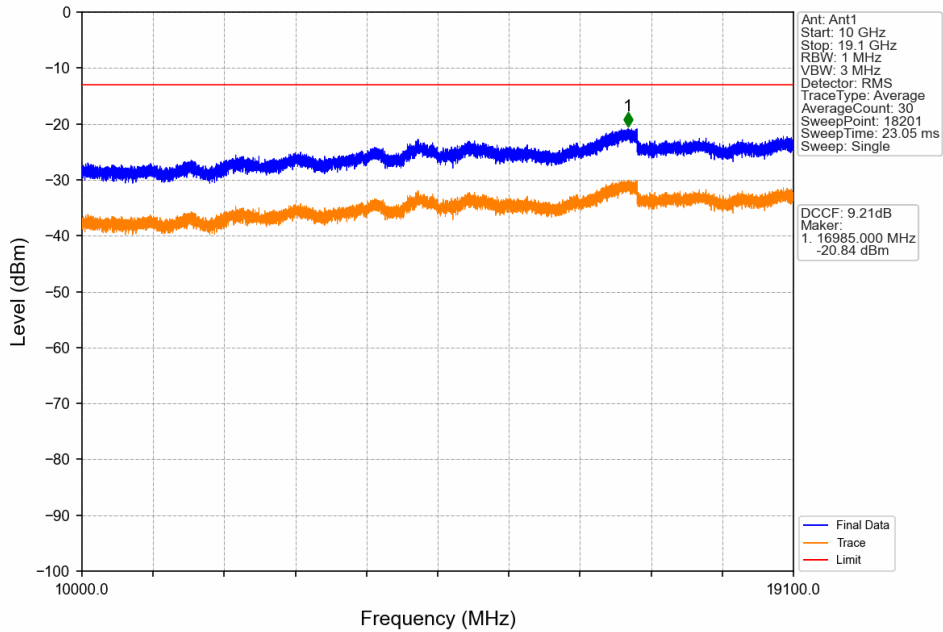


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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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6. Field Strength of Spurious Radiation

Test Band = GSM_1900
 Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.535	75.54	-50.02	30.30	-39.44	-13.00	26.44	Horizontal
2	5550.8775	83.44	-45.46	33.20	-24.08	-13.00	11.08	Horizontal
3	9250.8125	50.81	-41.18	39.10	-46.53	-13.00	33.53	Horizontal
4	11917.1959	47.62	-37.98	39.48	-46.14	-13.00	33.14	Horizontal
5	15019.351	48.98	-38.91	39.88	-45.31	-13.00	32.31	Horizontal
6	17939.247	49.17	-42.98	42.44	-46.63	-13.00	33.63	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.535	71.46	-50.02	30.30	-43.52	-13.00	30.52	Vertical
2	5550.8775	81.53	-45.46	33.20	-25.99	-13.00	12.99	Vertical
3	9250.8125	51.79	-41.18	39.10	-45.55	-13.00	32.55	Vertical
4	11918.6959	47.91	-38.00	39.48	-45.87	-13.00	32.87	Vertical
5	15030.6015	49.33	-39.00	39.87	-45.06	-13.00	32.06	Vertical
6	17977.4989	49.84	-43.65	42.66	-46.41	-13.00	33.41	Vertical



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Rev.: 01
Page: 43 of 44

Test Band = GSM_1900
Test Channel = MCH

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

Table with 9 columns: NO., Freq. [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 = GSM_1900
 Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.791	69.23	-49.64	30.46	-45.21	-13.00	32.21	Horizontal
2	5729.3865	89.21	-45.45	33.74	-17.76	-13.00	4.76	Horizontal
3	7638.9819	52.50	-43.67	36.78	-49.65	-13.00	36.65	Horizontal
4	9549.3275	59.22	-41.61	39.10	-38.55	-13.00	25.55	Horizontal
5	12181.9591	47.83	-38.02	39.45	-46.00	-13.00	33.00	Horizontal
6	17994.7497	49.91	-44.06	42.77	-46.64	-13.00	33.64	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3819.791	69.01	-49.64	30.46	-45.43	-13.00	32.43	Vertical
2	5729.3865	83.52	-45.45	33.74	-23.45	-13.00	10.45	Vertical
3	7638.9819	51.94	-43.67	36.78	-50.21	-13.00	37.21	Vertical
4	9549.3275	62.17	-41.61	39.10	-35.60	-13.00	22.60	Vertical
5	13406.0203	48.19	-39.11	40.29	-45.89	-13.00	32.89	Vertical
6	17921.2461	49.96	-42.98	42.33	-45.95	-13.00	32.95	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

---End of Attachment---



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