



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

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Appendix B.2

PCS 1900



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

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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 sgs.china@sgs.com



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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 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots	1850.2 1850.2 1850.2 1850.2 1880 1880 1880 1880 1909.8 1909.8 1909.8 1909.8	1850.2	20.29	0.10	20.39	<=33.01	Pass			
				1850.2	27.14	0.10	27.24	<=33.01	Pass			
				1850.2	25.21	0.10	25.31	<=33.01	Pass			
				1850.2	24.21	0.10	24.31	<=33.01	Pass			
				1880	29.48	0.10	29.58	<=33.01	Pass			
				1880	27.05	0.10	27.15	<=33.01	Pass			
				1880	25.04	0.10	25.14	<=33.01	Pass			
				1880	24.04	0.10	24.14	<=33.01	Pass			
				1909.8	29.65	0.10	29.75	<=33.01	Pass			
				1909.8	27.16	0.10	27.26	<=33.01	Pass			
				1909.8	25.12	0.10	25.22	<=33.01	Pass			
				1909.8	24.13	0.10	24.23	<=33.01	Pass			
				EGPRS	1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots 1 TX Slot 2 TX Slots 3 TX Slots 4 TX Slots	1850.2 1850.2 1850.2 1850.2 1880 1880 1880 1880 1909.8 1909.8 1909.8 1909.8	1850.2	28.51	0.10	28.61	<=33.01	Pass
							1850.2	25.97	0.10	26.07	<=33.01	Pass
							1850.2	24.27	0.10	24.37	<=33.01	Pass
							1850.2	23.11	0.10	23.21	<=33.01	Pass
	1880	28.03	0.10				28.13	<=33.01	Pass			
	1880	25.80	0.10				25.90	<=33.01	Pass			
	1880	23.75	0.10				23.85	<=33.01	Pass			
	1880	22.65	0.10				22.75	<=33.01	Pass			
	1909.8	28.30	0.10				28.40	<=33.01	Pass			
	1909.8	25.28	0.10				25.38	<=33.01	Pass			
	1909.8	23.22	0.10				23.32	<=33.01	Pass			
	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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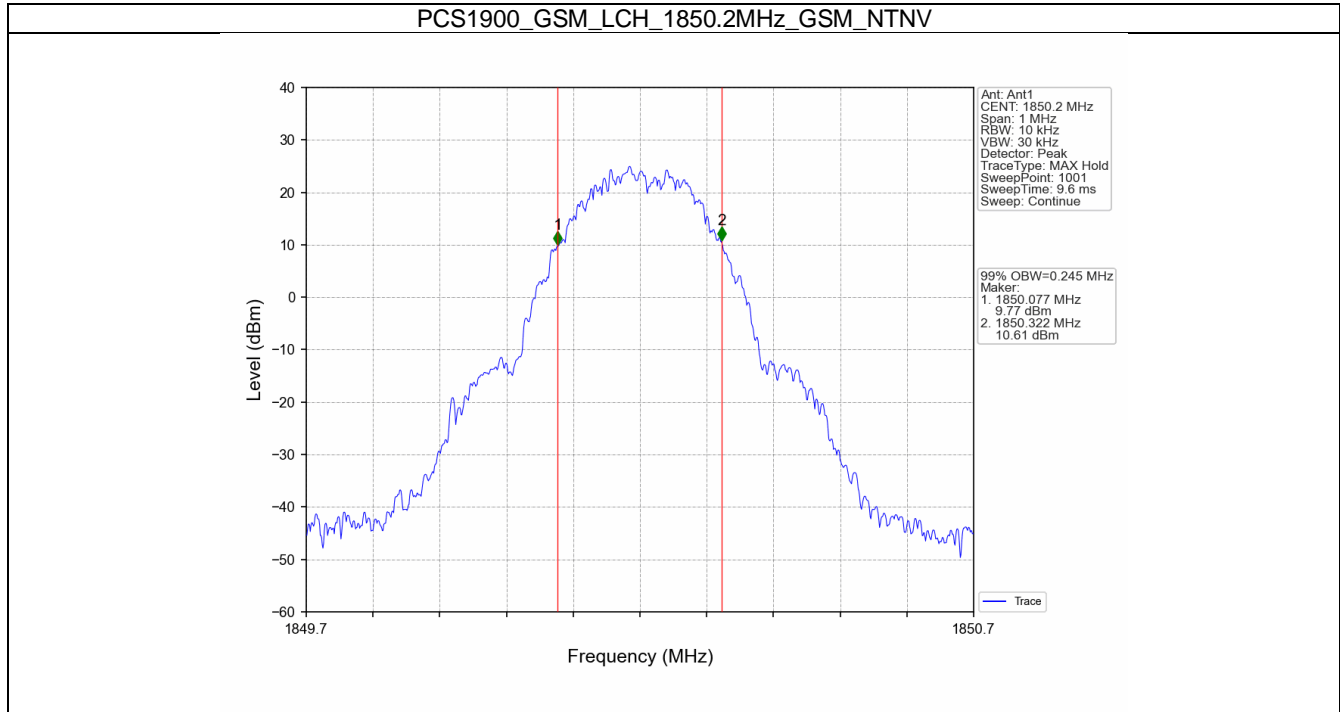
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3.1.2 Test Graph



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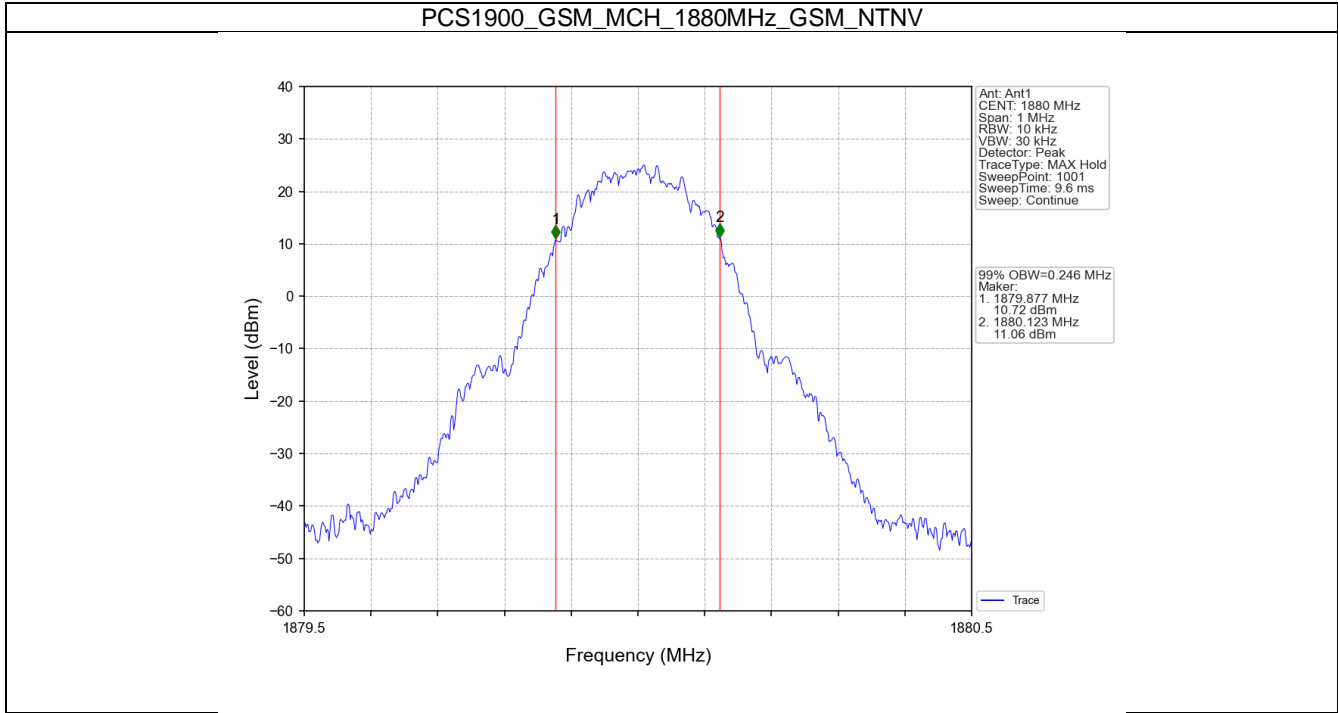
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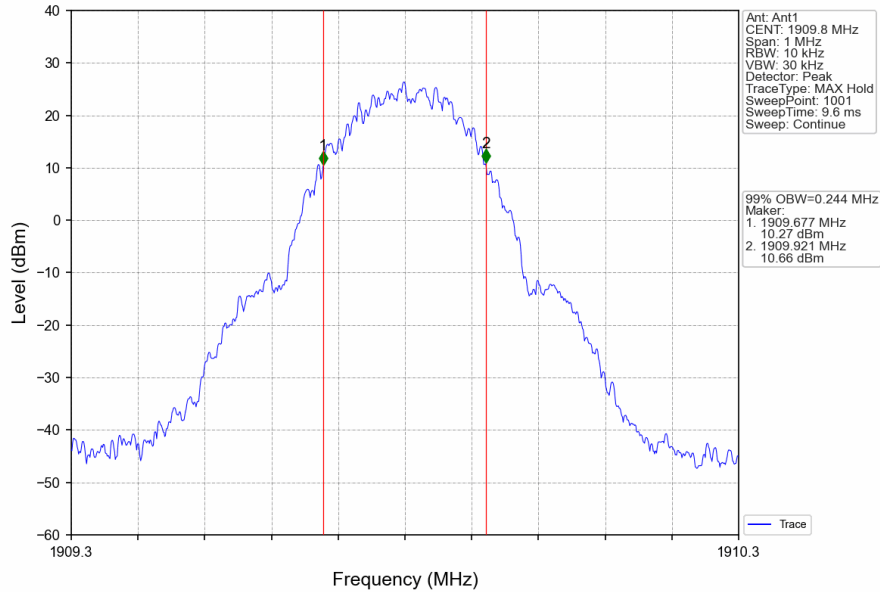
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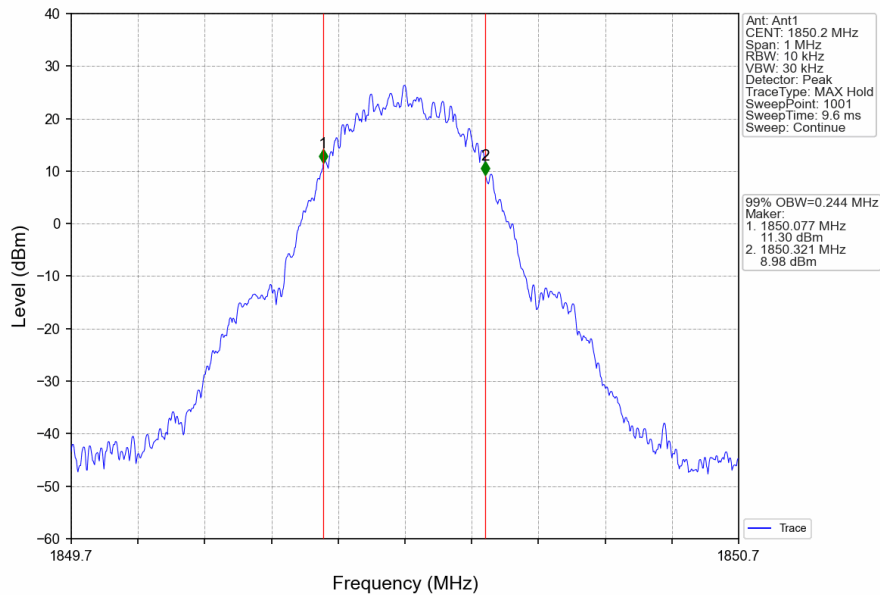
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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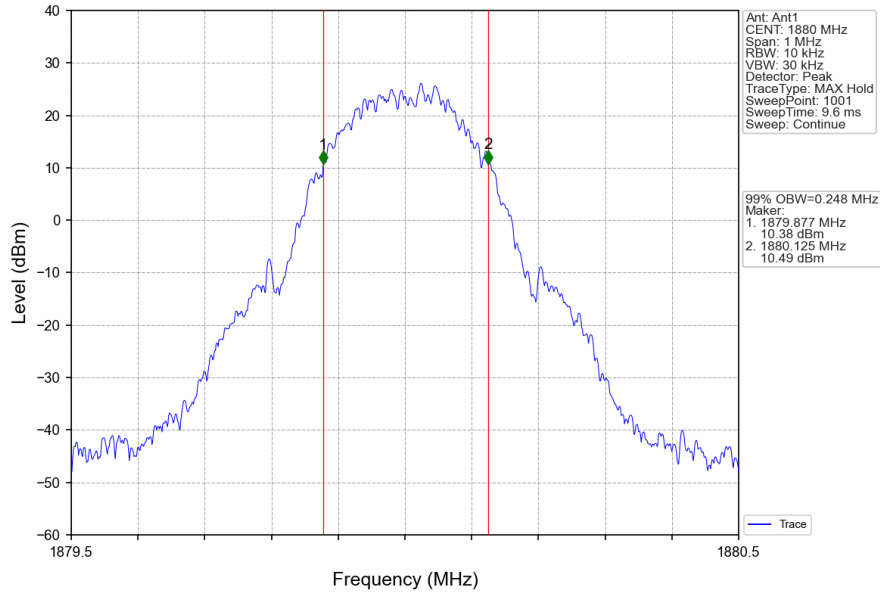
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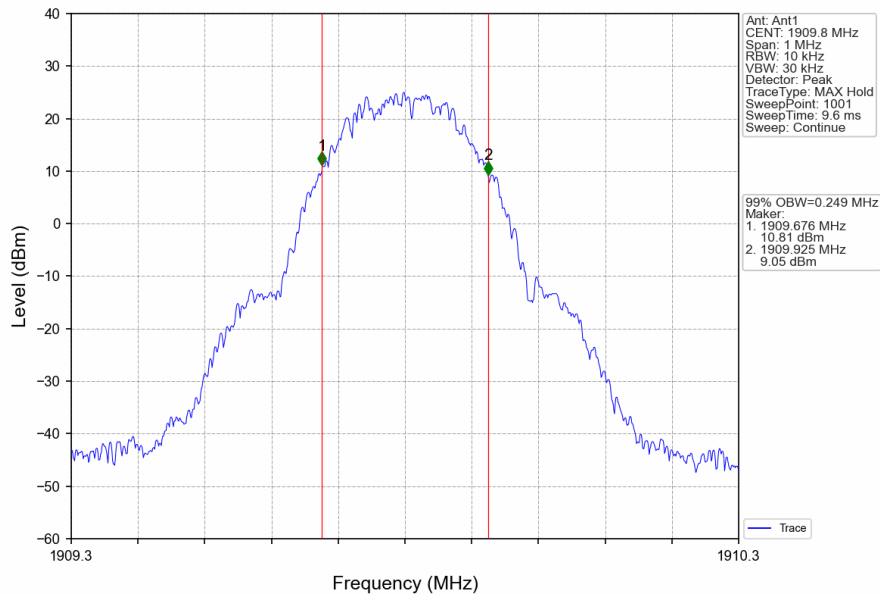
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PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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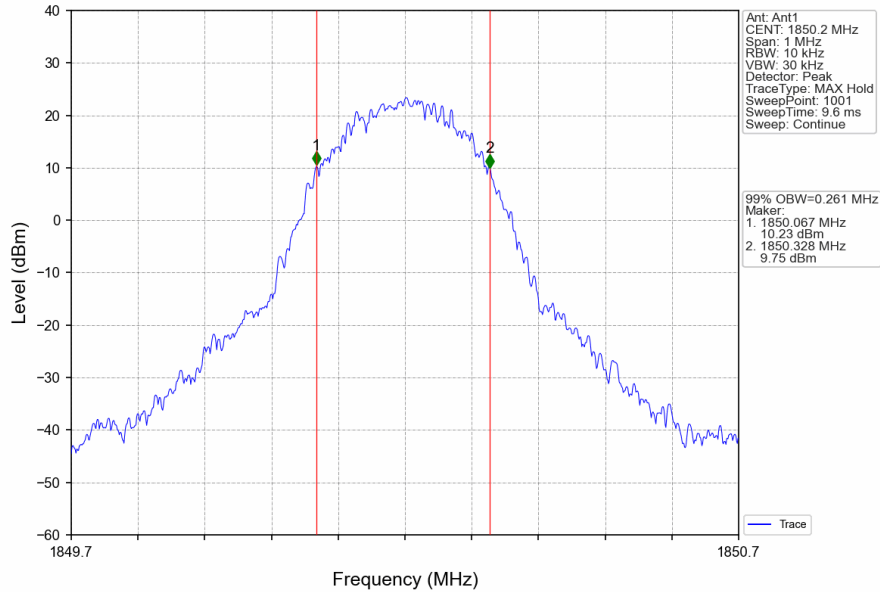
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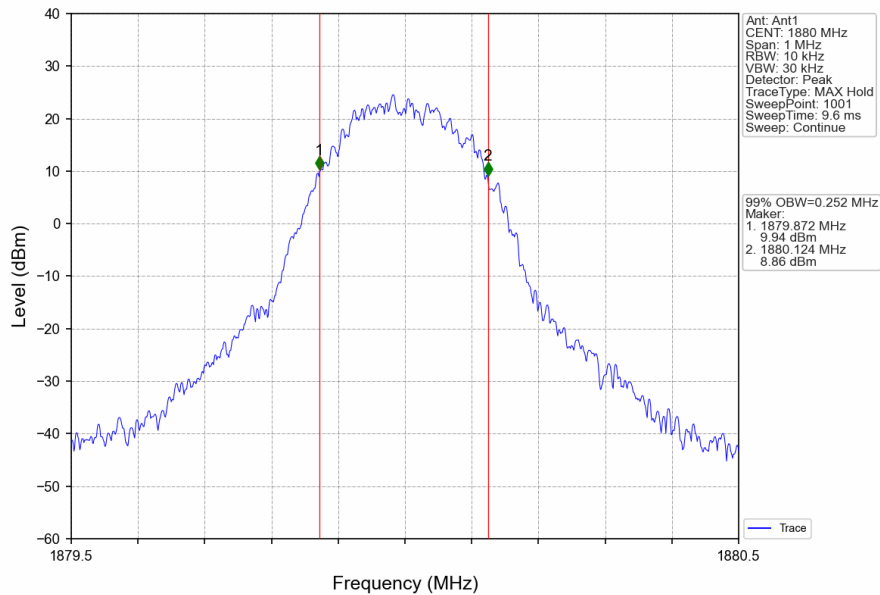
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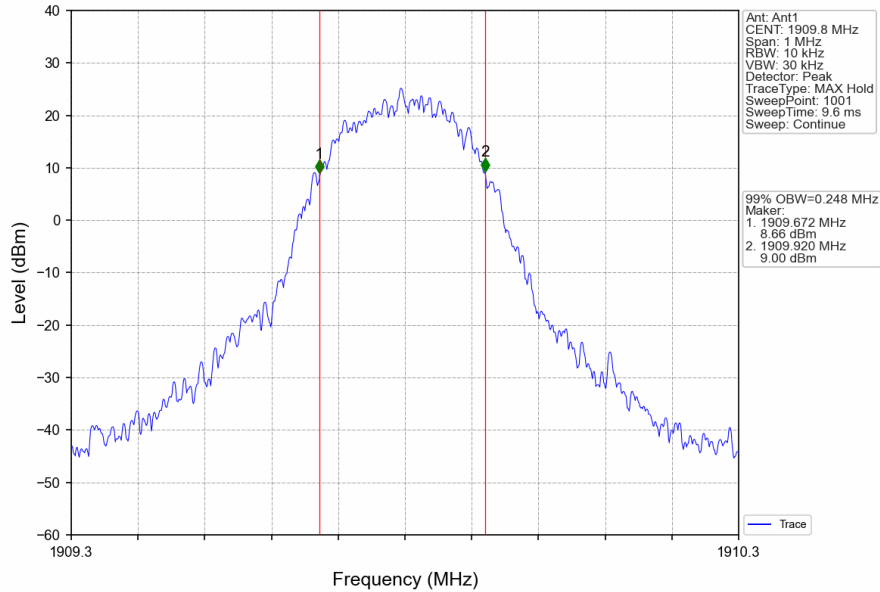
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3.2 PCS1900_XDB

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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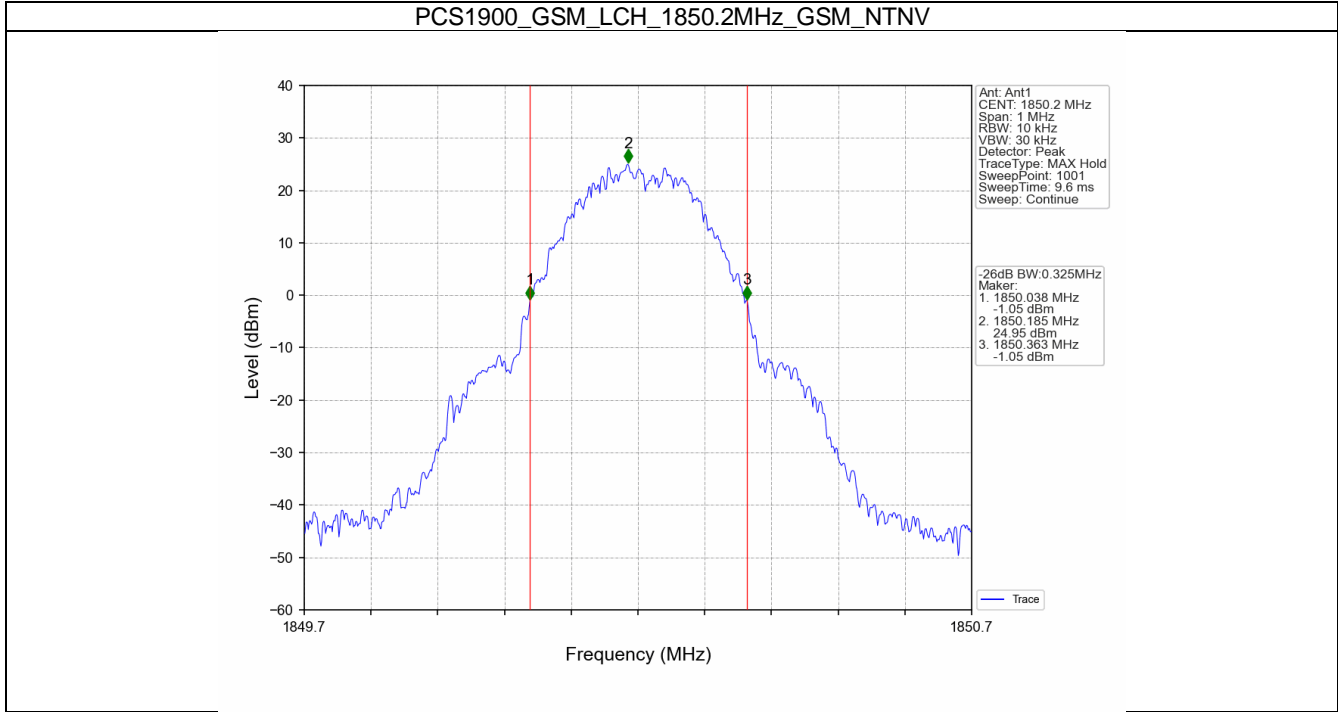
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3.2.2 Test Graph



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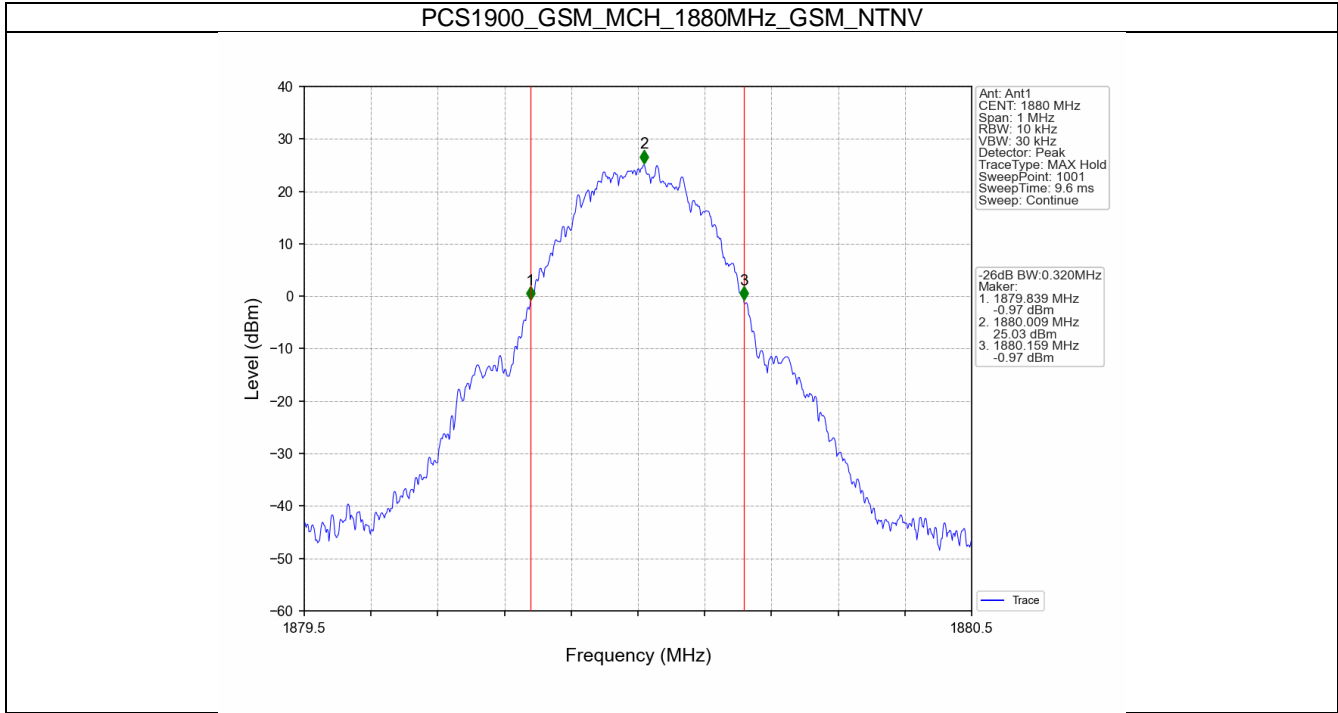
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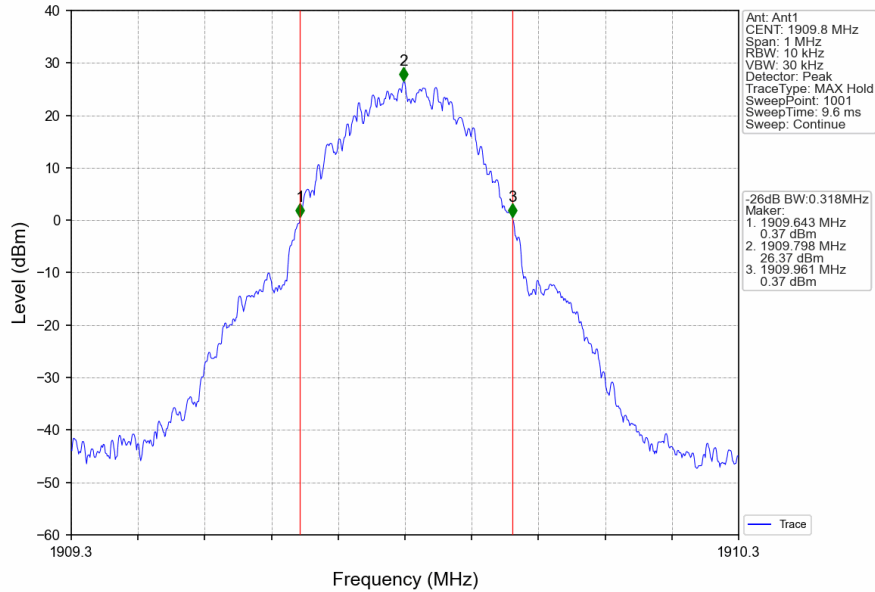
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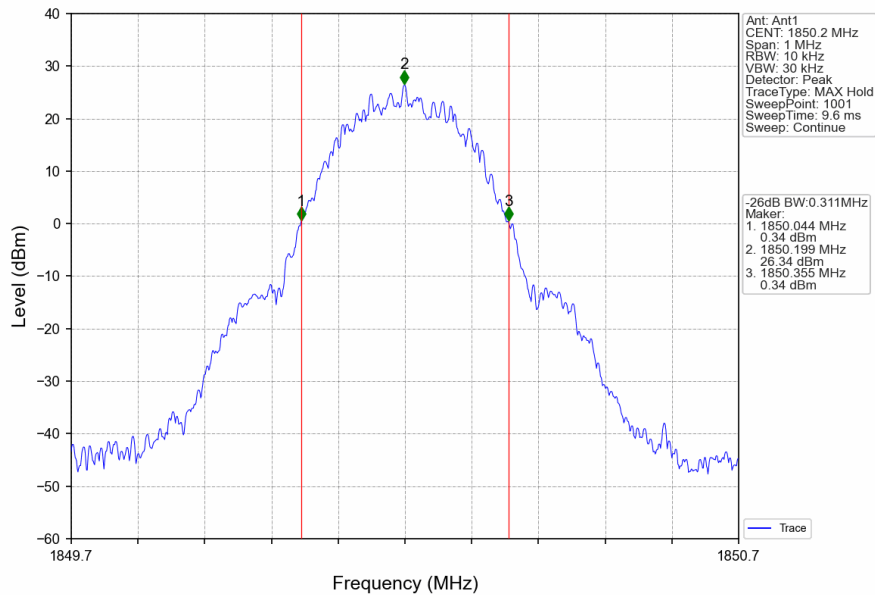
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



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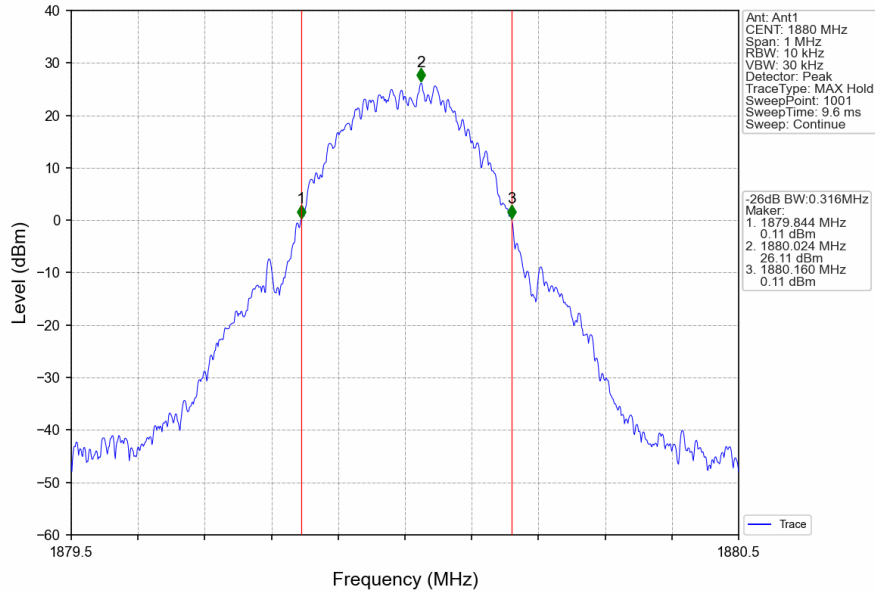
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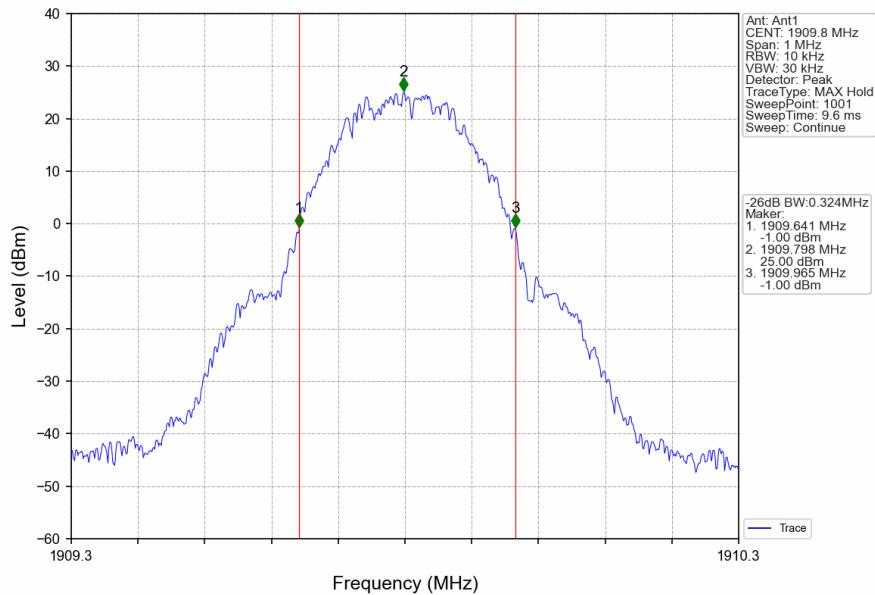
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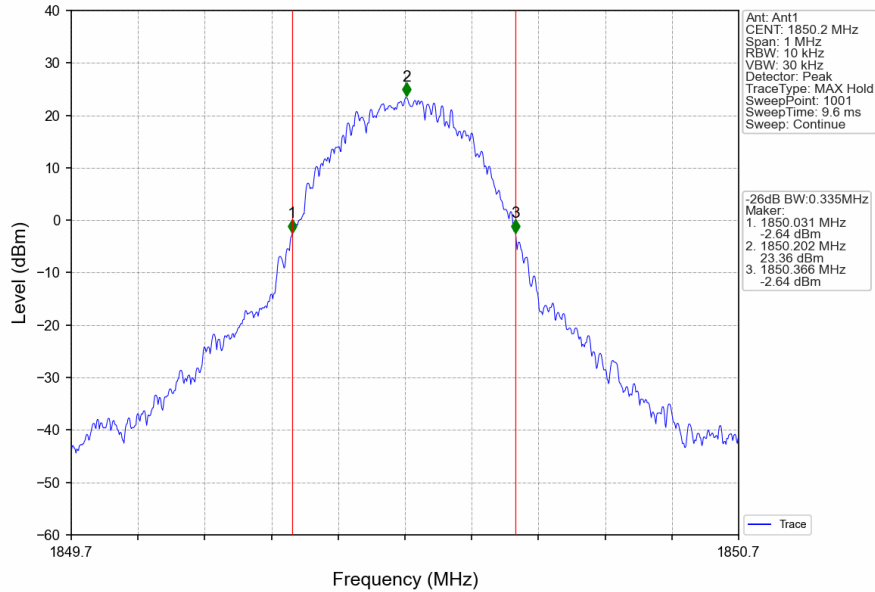
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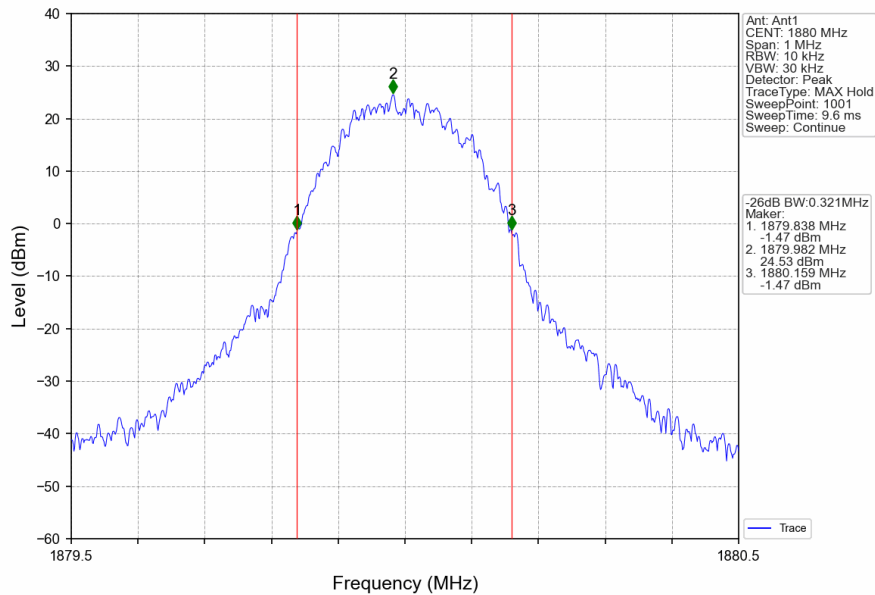
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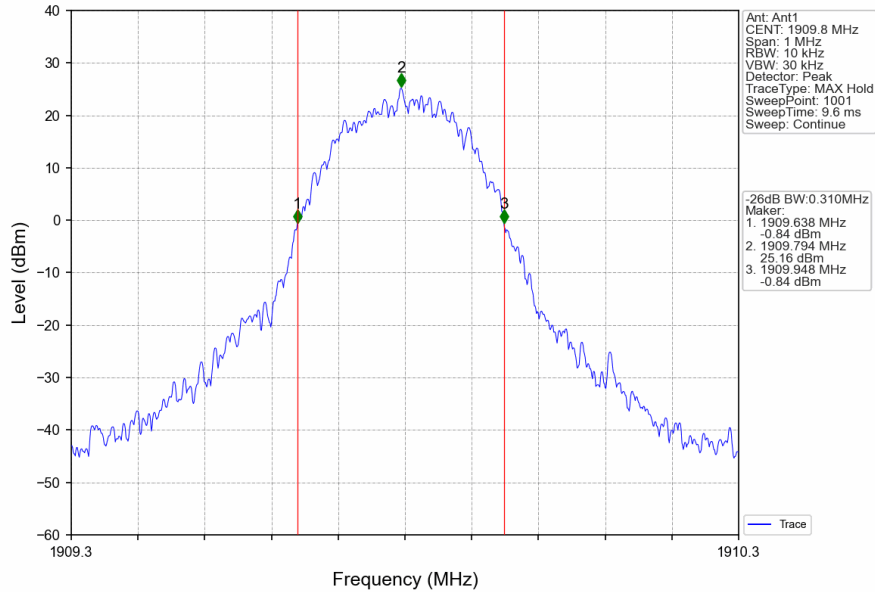
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4. Peak-Average Ratio

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	9.54	<=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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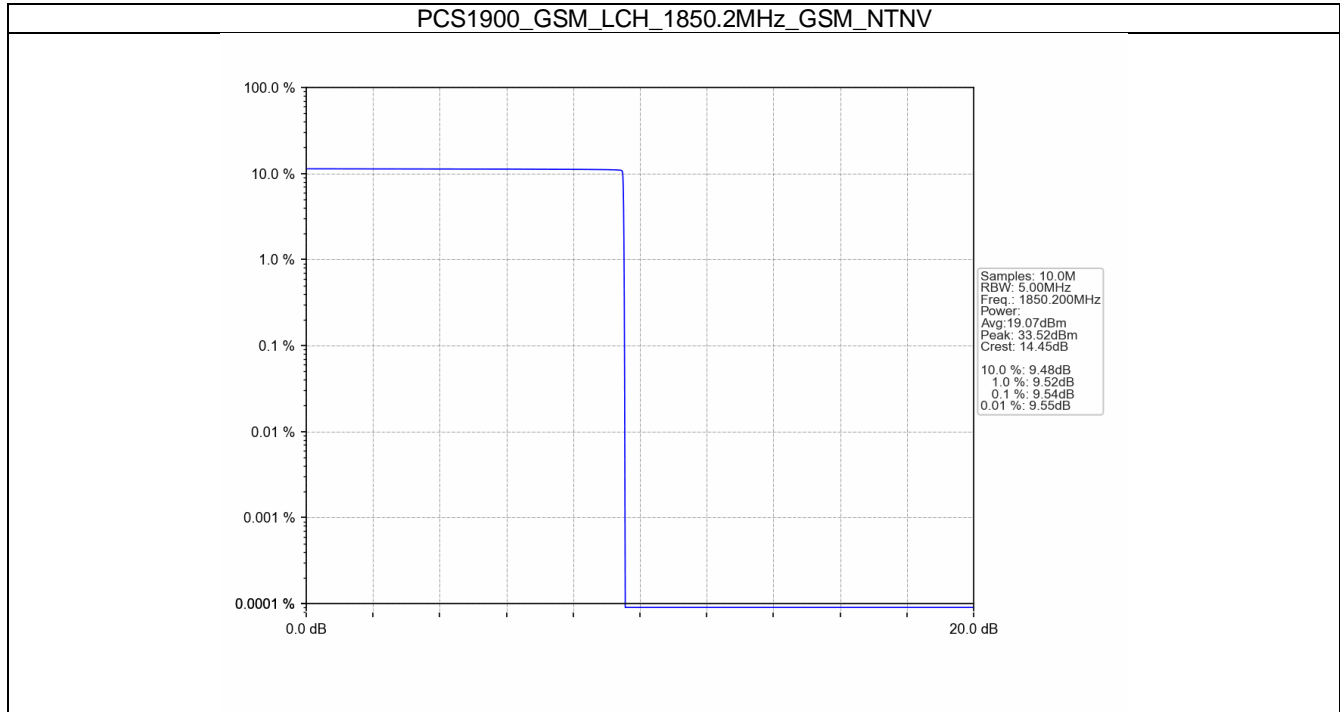
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4.1.2 Test Graph



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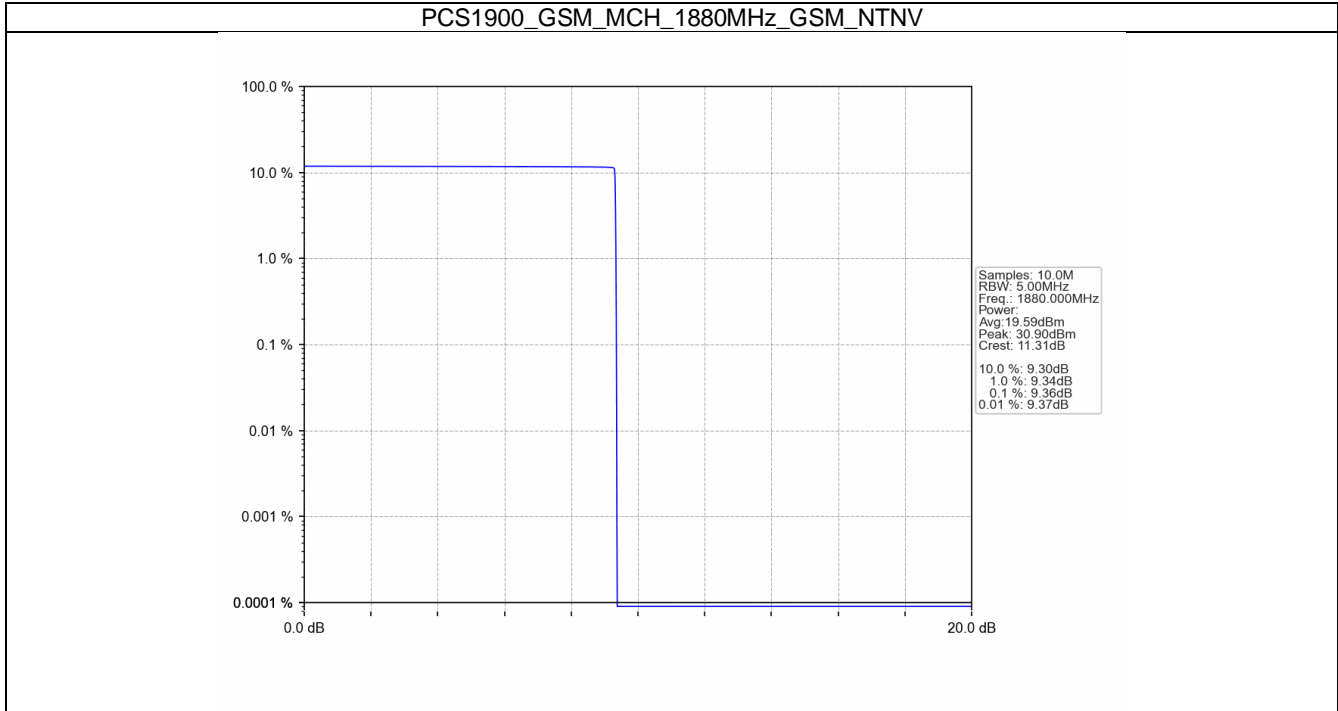
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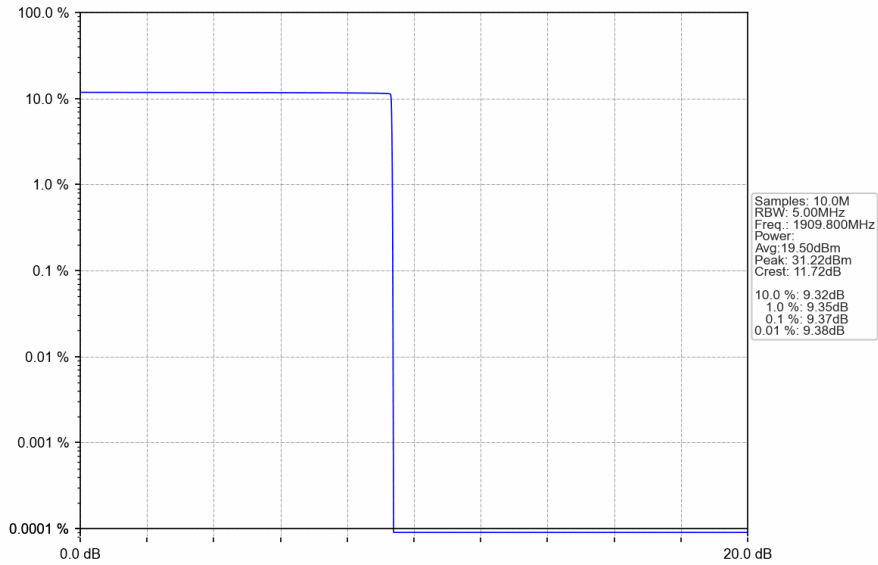
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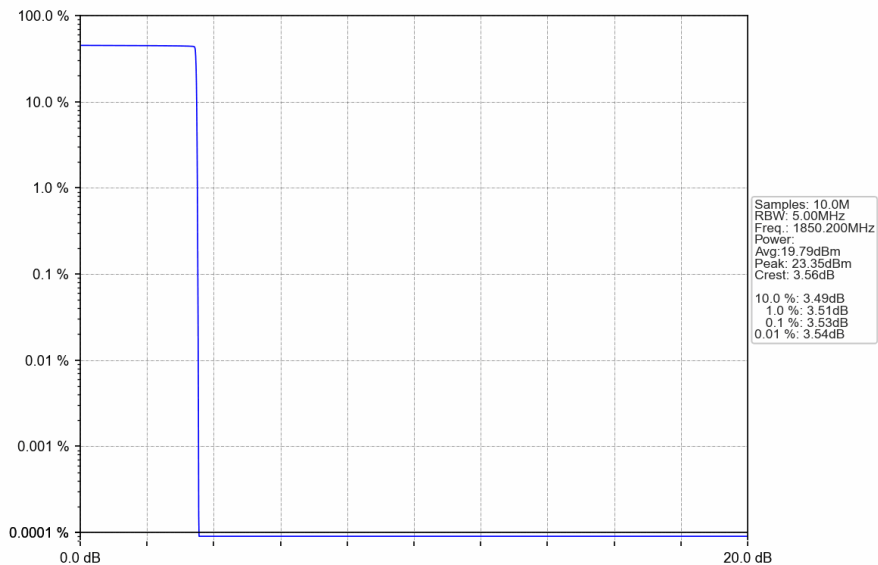
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_GPRS_LCH_1850.2MHz_4 TX Slots_NTNV



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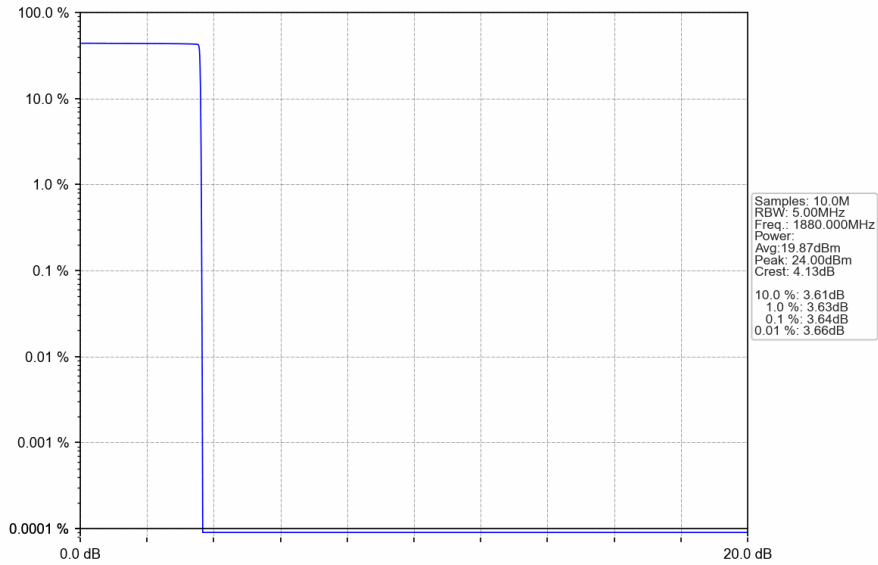
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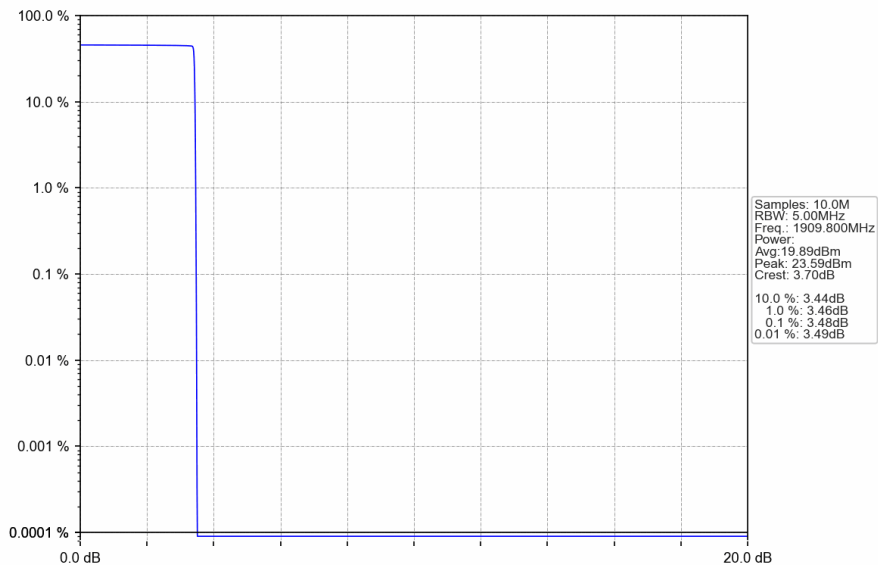
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PCS1900_GPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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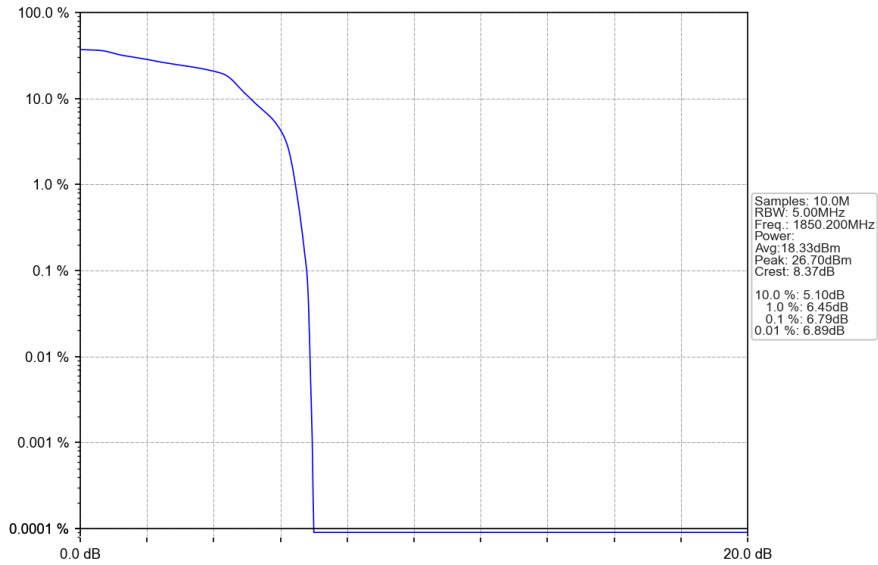
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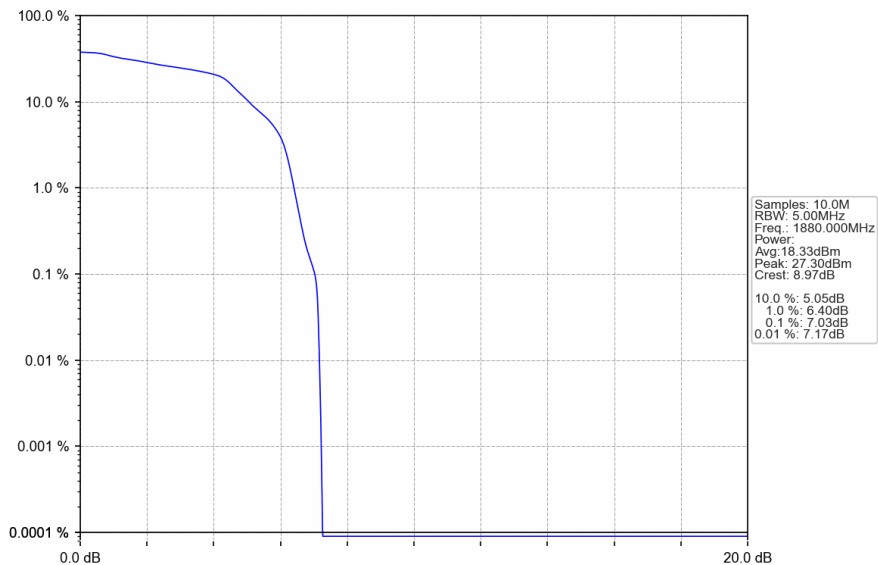
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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



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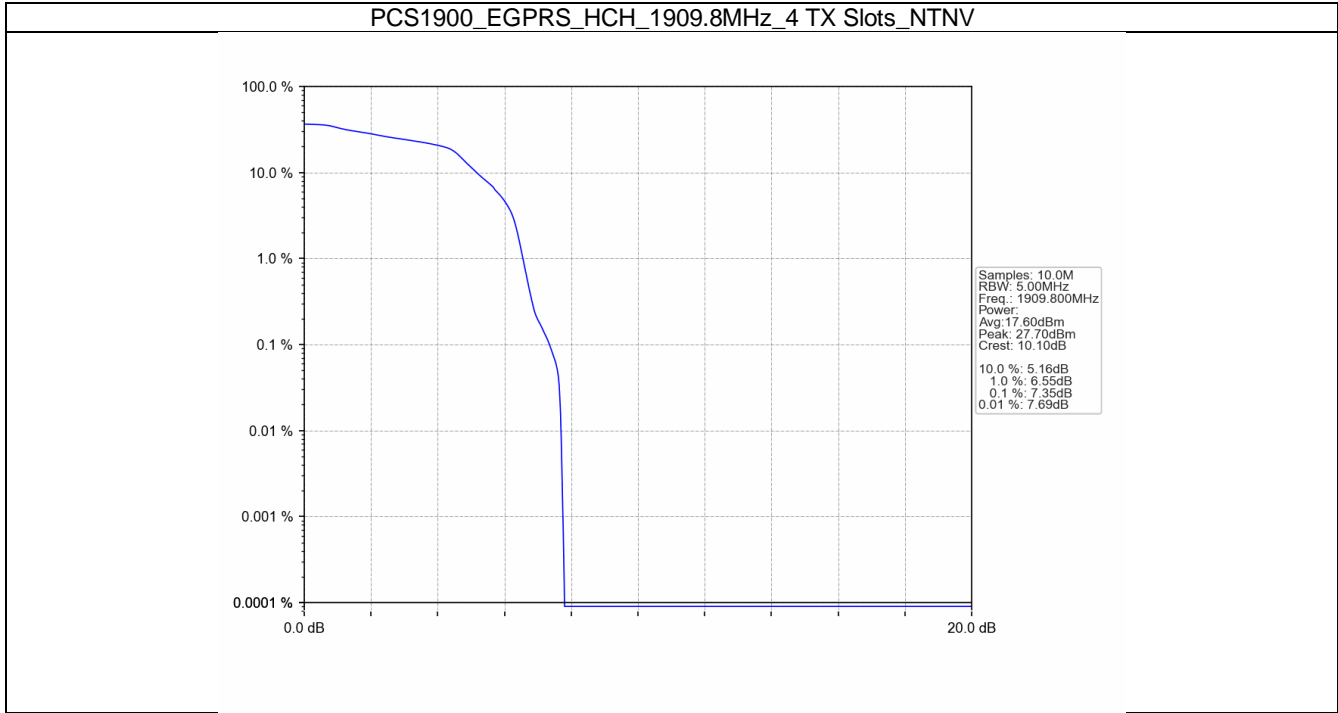
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5. Spurious Emission & Band Edge

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
			1909.8	Refer To Test Graph		Pass



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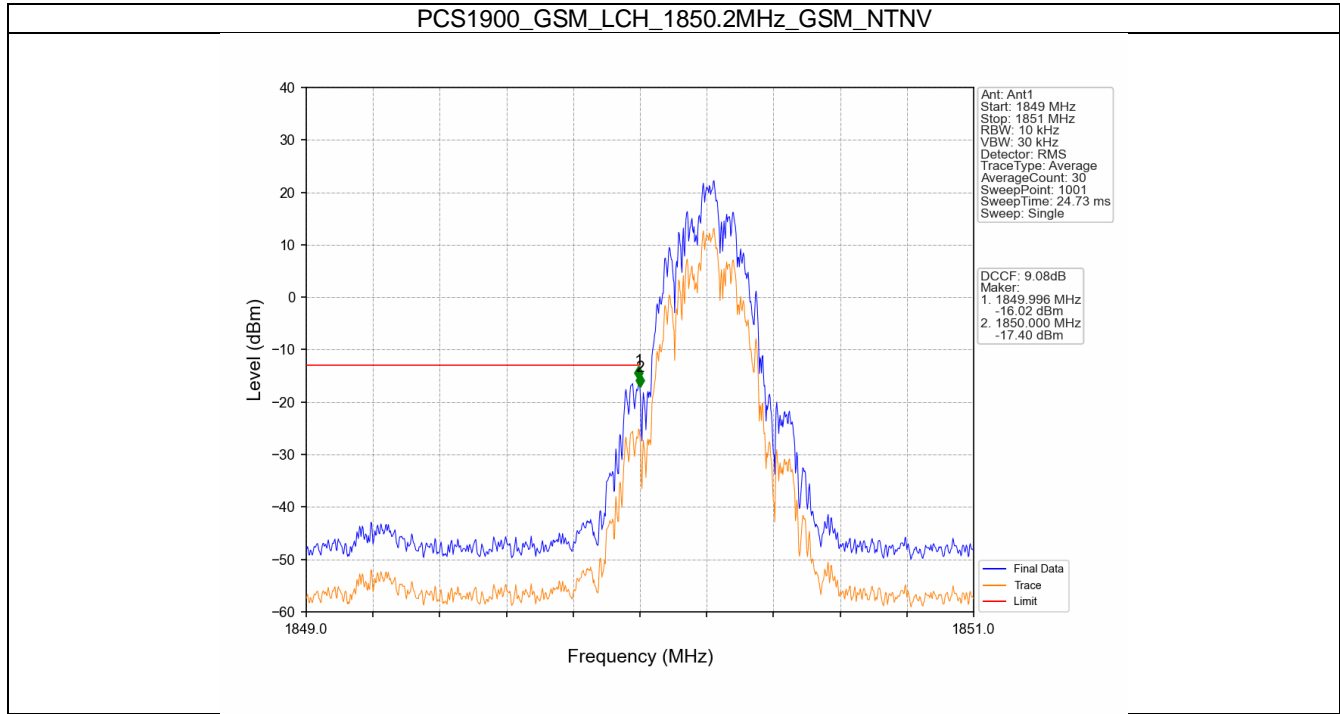
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5.1.2 Test Graph



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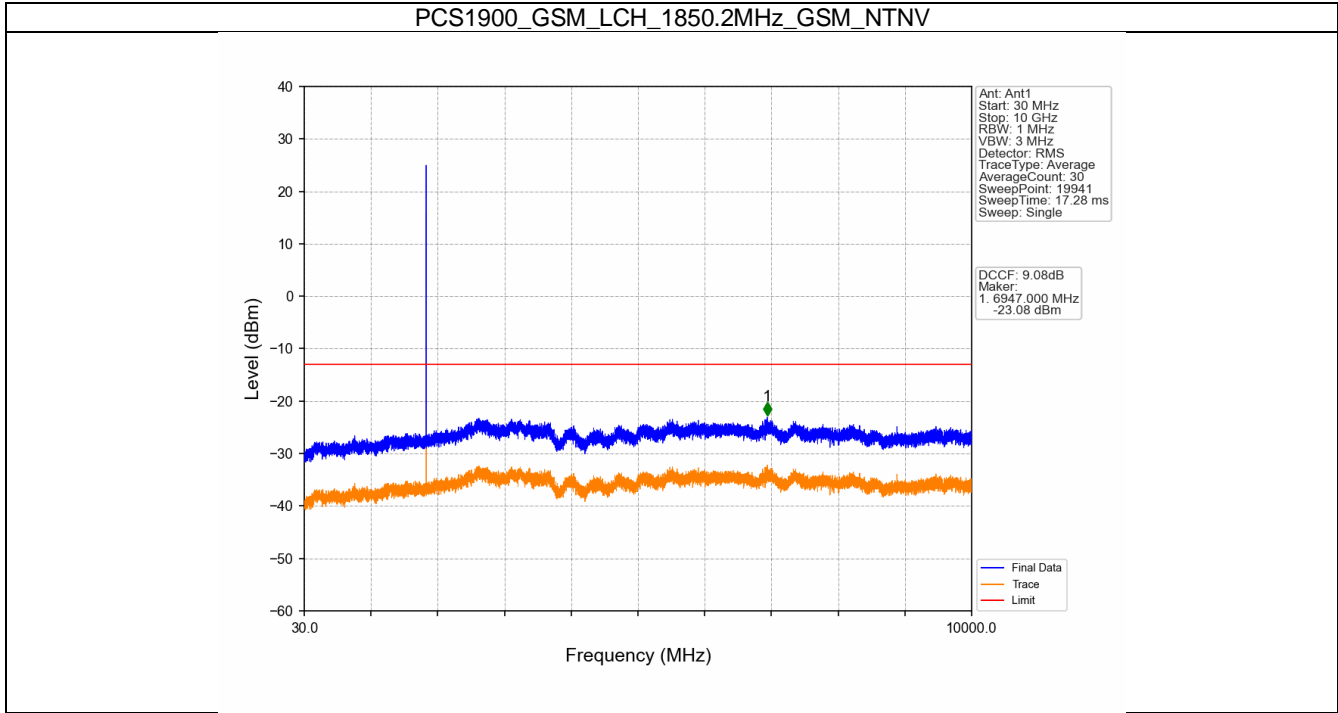
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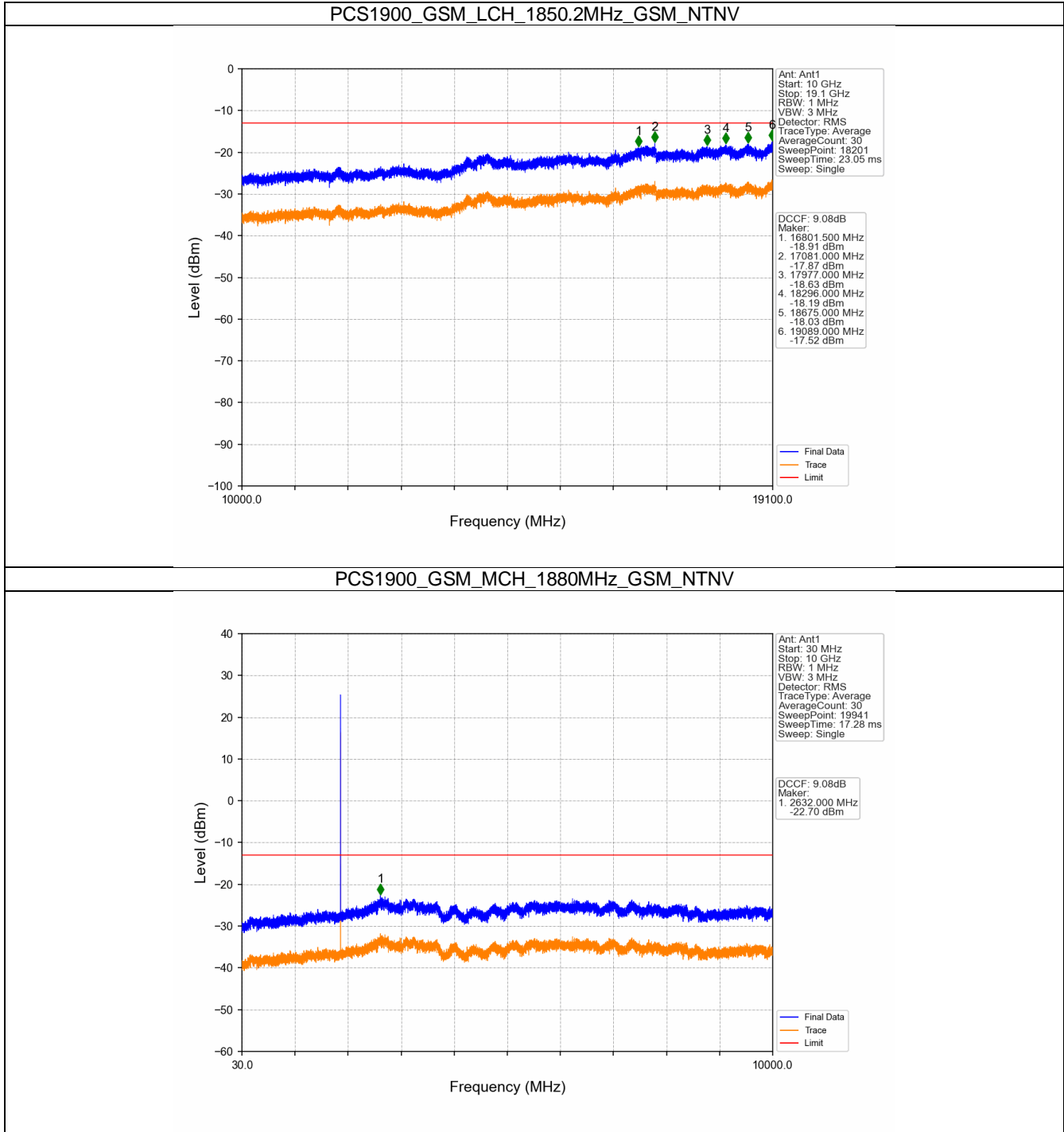
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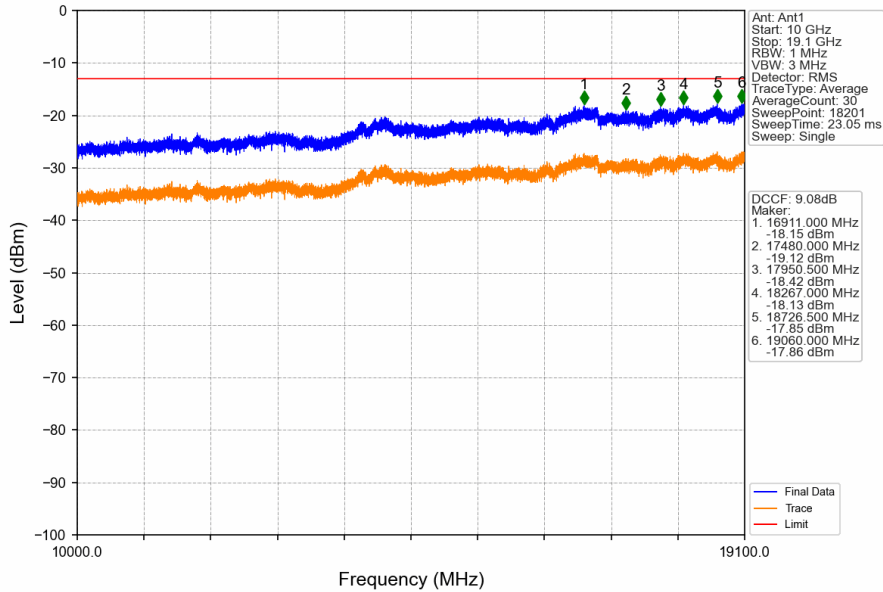
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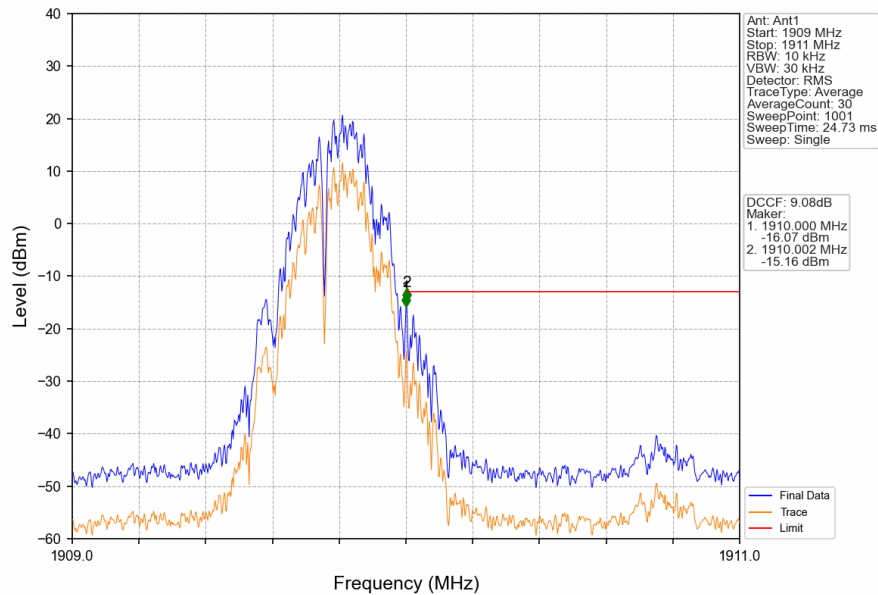
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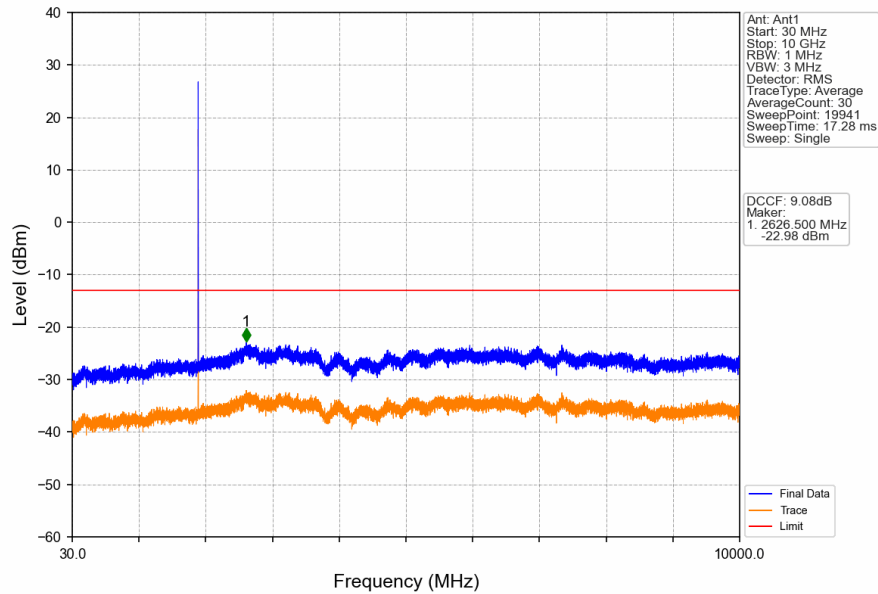
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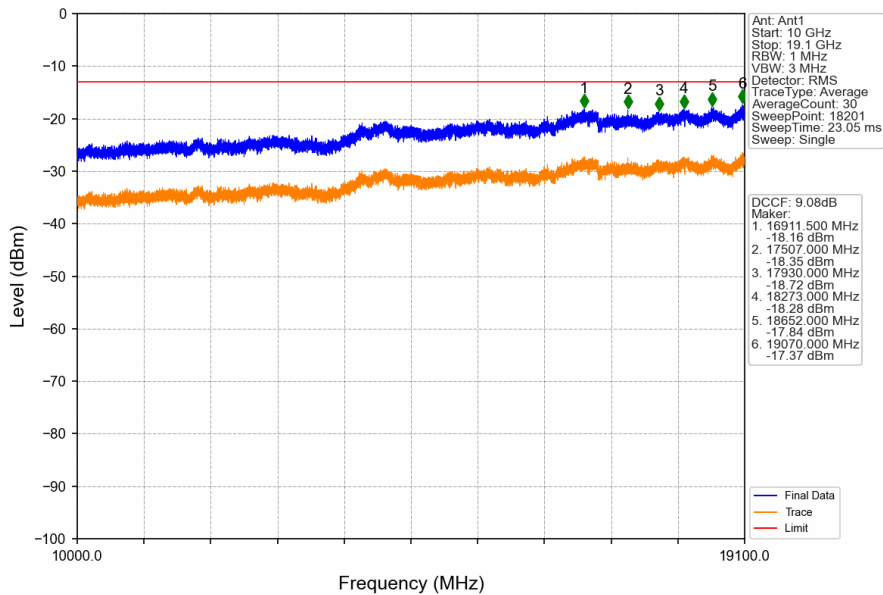
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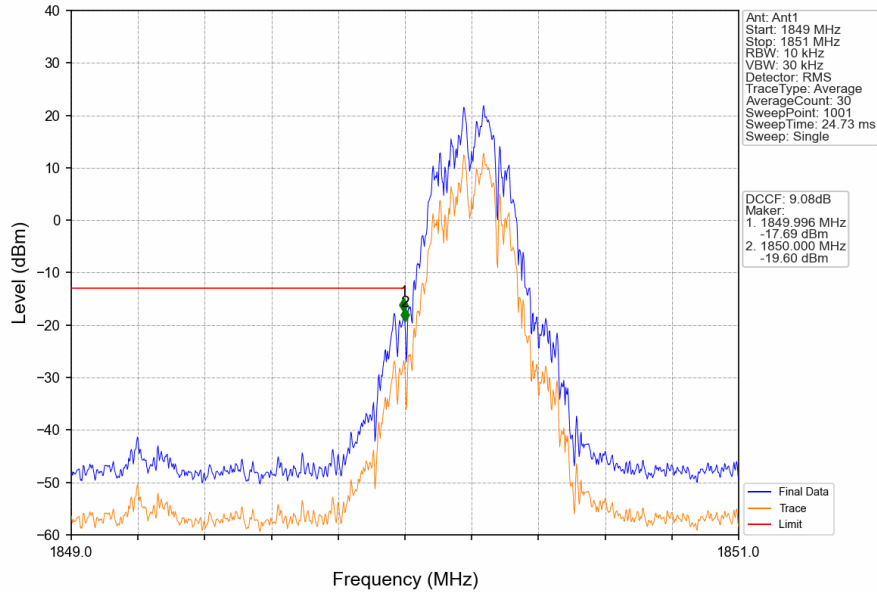
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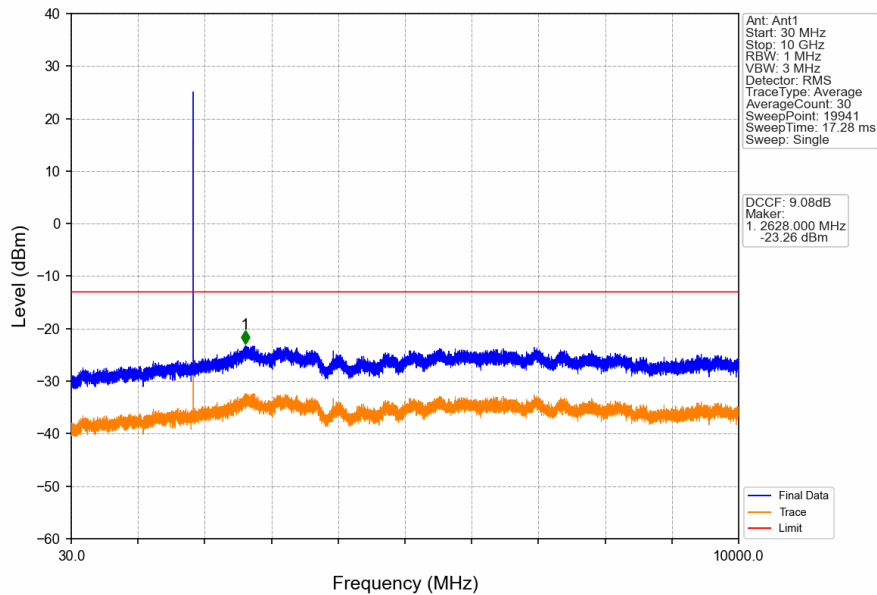
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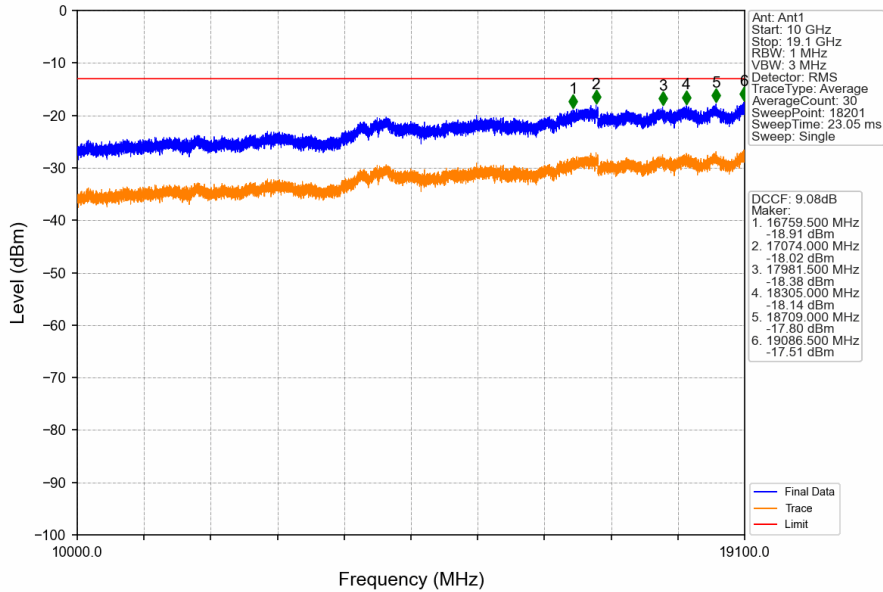
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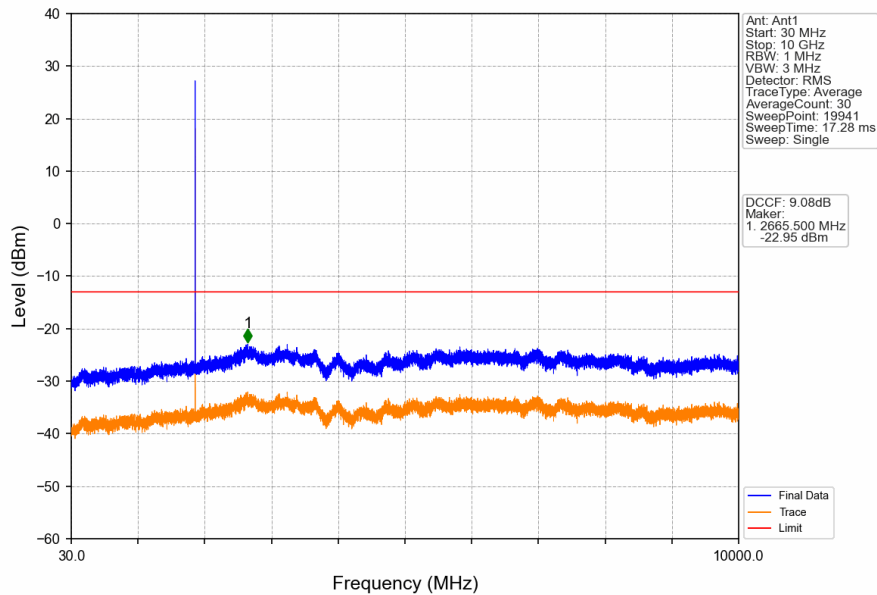
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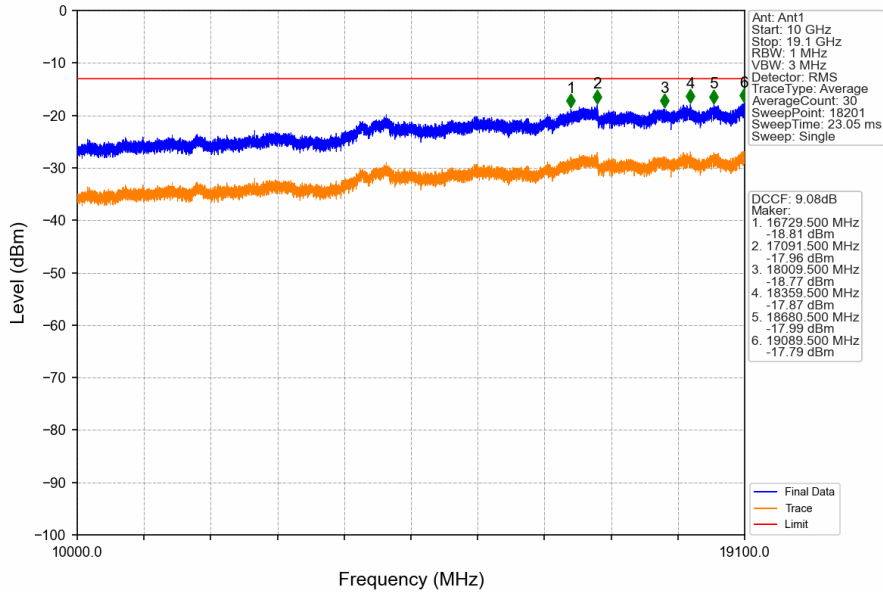
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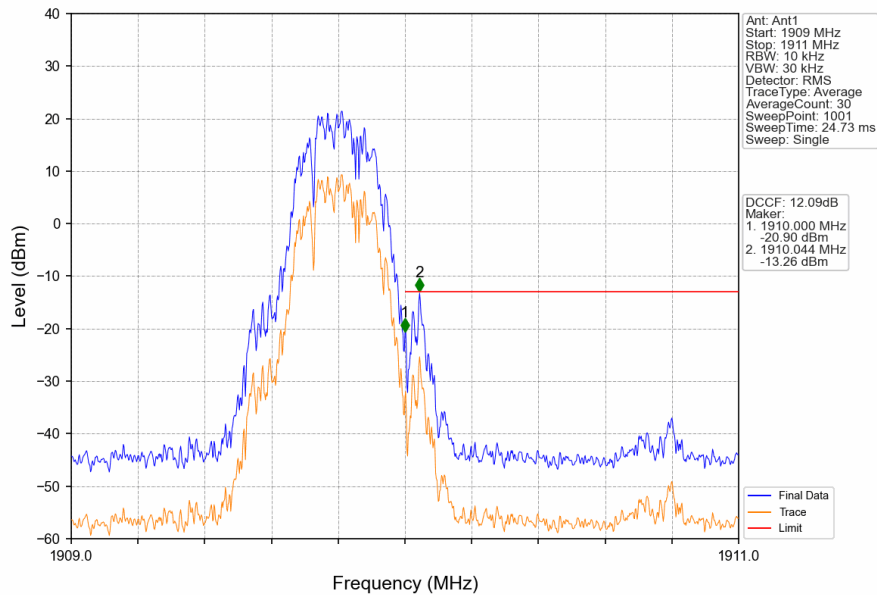
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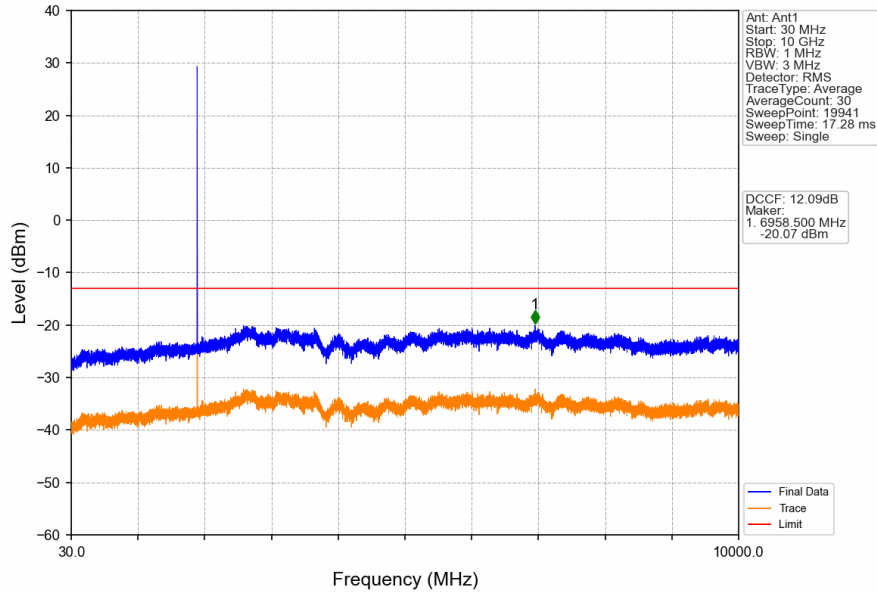
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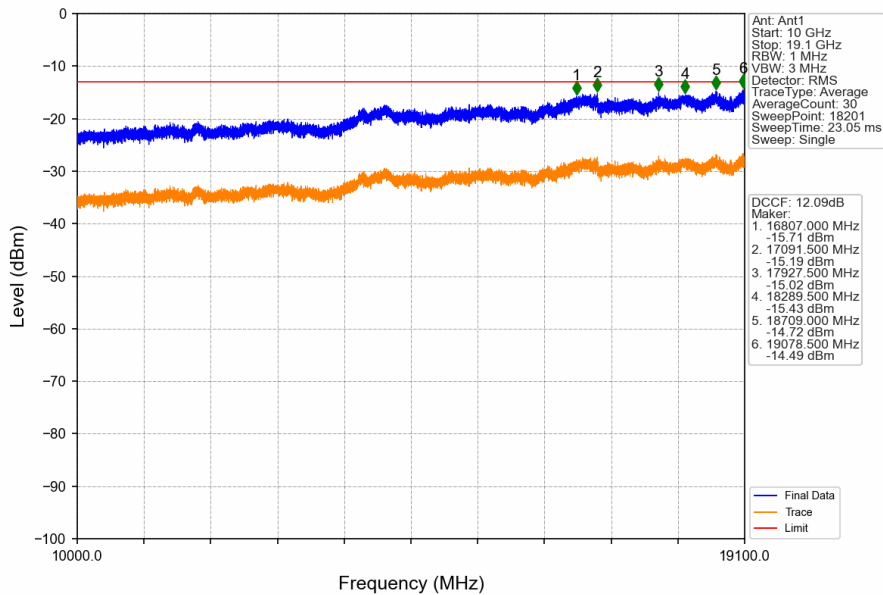
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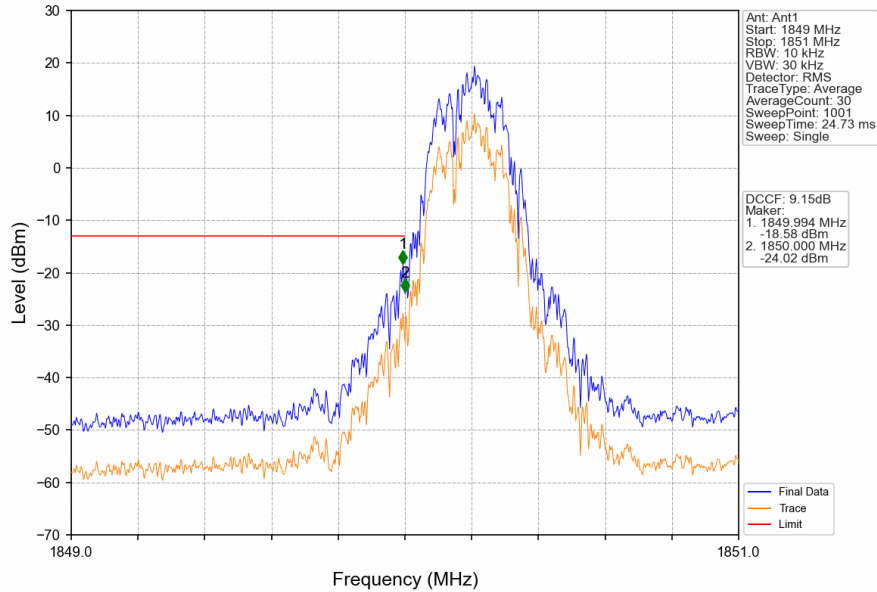
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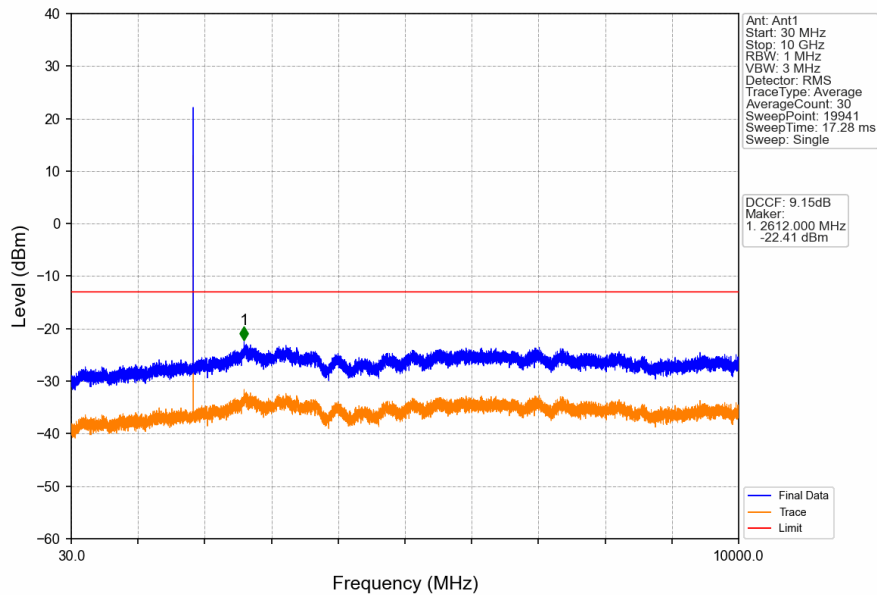
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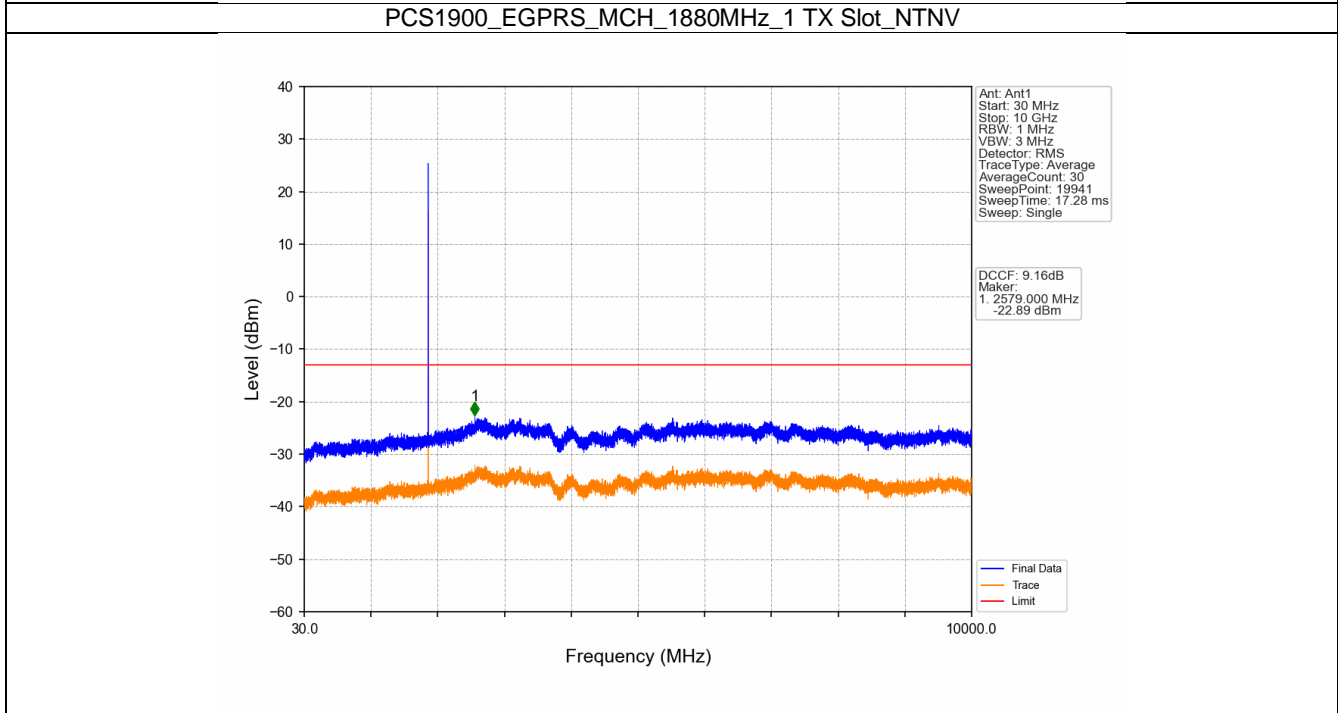
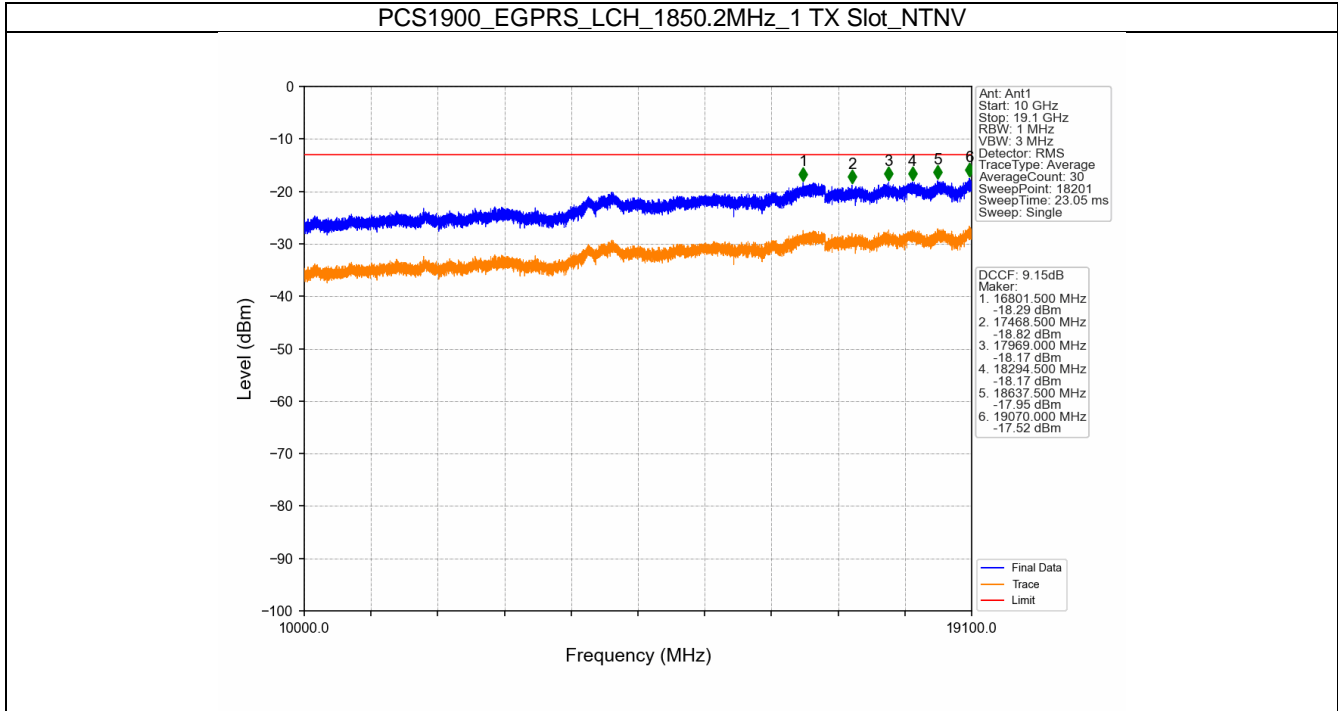
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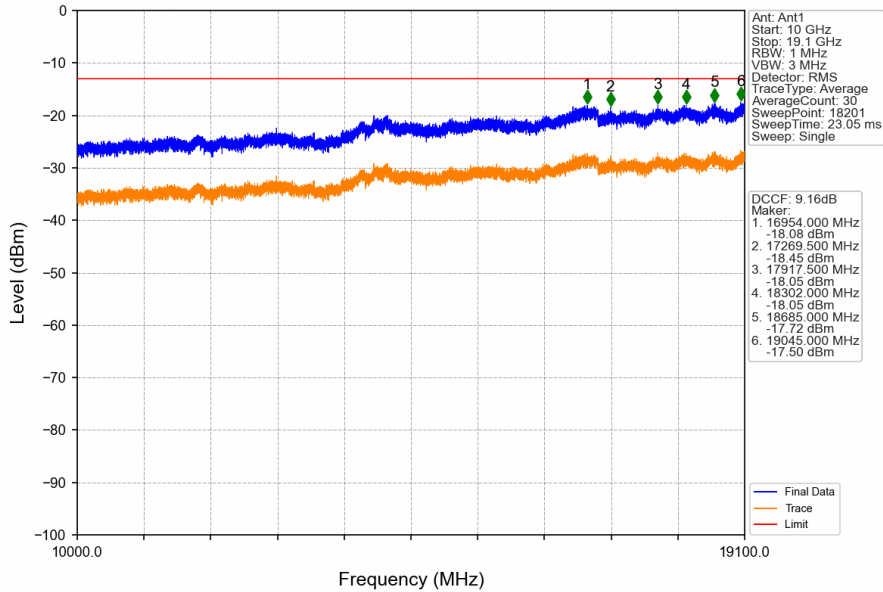
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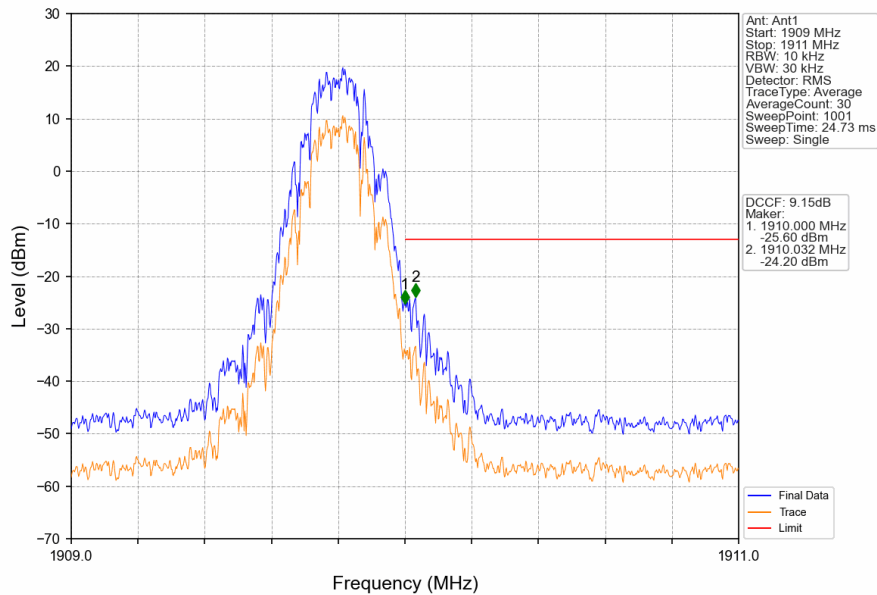
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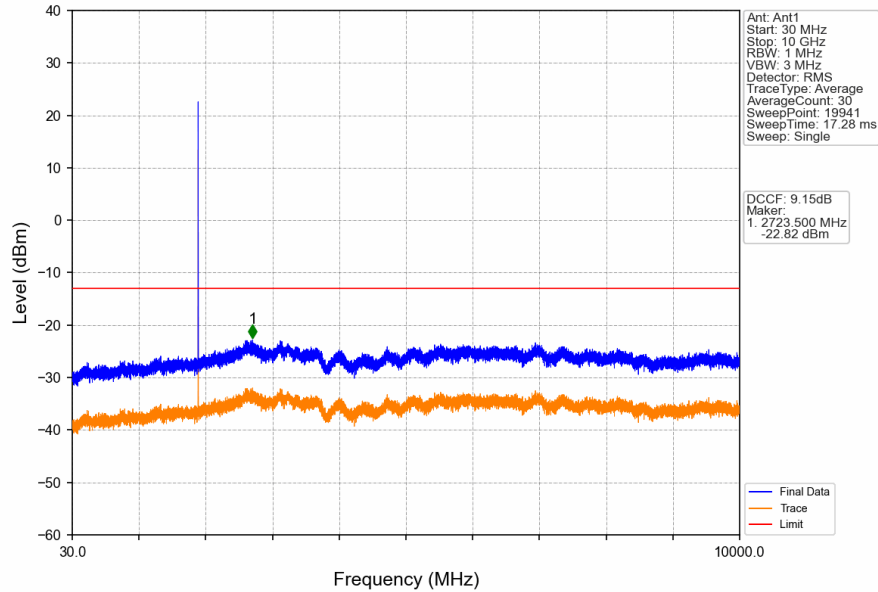
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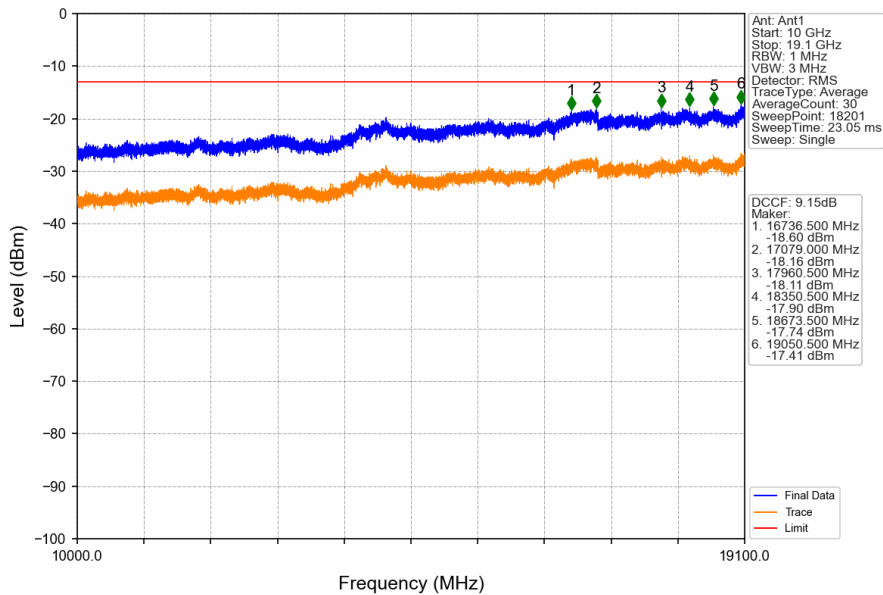
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6. Field Strength of Spurious Radiation

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)	Preamp_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)	Preamp_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)	Preamp_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)	Preamp_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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