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# Appendix B.2

**GSM 1900** 



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

#### 1.1 PCS1900\_EIRPAnt3

#### 1.1.1 Test Result

	Band: PCS1900										
ENV	N	/lode	Frequency	Conducted Power	Gain	EIRP	(dBm)	Verdict			
EINV	Network	Subset	(MHz)	(dBm)	(dBi)	Result	Limit	verdict			
			1850.2	29.56	0.95	30.51	<=33.00	Pass			
GSM		GSM	1880	29.80	0.95	30.75	<=33.00	Pass			
			1909.8	29.69	0.95	30.64	<=33.00	Pass			
		1 TX Slot	1850.2	25.27	0.95	26.22	<=33.00	Pass			
		2 TX Slots	1850.2	24.26	0.95	25.21	<=33.00	Pass			
		3 TX Slots	1850.2	22.35	0.95	23.30	<=33.00	Pass			
		4 TX Slots	1850.2	21.24	0.95	22.19	<=33.00	Pass			
NTNV		1 TX Slot	1880	25.18	0.95	26.13	<=33.00	Pass			
	EGPRS	2 TX Slots	1880	24.57	0.95	25.52	<=33.00	Pass			
	EGFKS	3 TX Slots	1880	23.22	0.95	24.17	<=33.00	Pass			
		4 TX Slots	1880	21.26	0.95	22.21	<=33.00	Pass			
		1 TX Slot	1909.8	25.18	0.95	26.13	<=33.00	Pass			
		2 TX Slots	1909.8	24.46	0.95	25.41	<=33.00	Pass			
		3 TX Slots	1909.8	22.46	0.95	23.41	<=33.00	Pass			
		4 TX Slots	1909.8	21.18	0.95	22.13	<=33.00	Pass			
Note1: El	RP=Conduc	ted Power+Ante	nna Gain				•	•			



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#### 2. Frequency Stability

#### 2.1 PCS1900

#### 2.1.1 Test Result

			Band: PCS1	900				
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm) Result	Verdict		
			3.4	-1.532	-0.0008	Pass		
		20	3.8	-3.970	-0.0021	Pass		
			4.4	-4.435	-0.0024	Pass		
		-30	3.8	-5.917	-0.0032	Pass		
		-20	3.8	-5.547	-0.0030	Pass		
	1850.2	-10	3.8	-3.207	-0.0017	Pass		
		0	3.8	-2.657	-0.0014	Pass		
		10	3.8	-4.069	-0.0022	Pass		
		30	3.8	-6.742	-0.0036	Pass		
		40	3.8	-5.874	-0.0032	Pass		
		50	3.8	-6.734	-0.0036	Pass		
			3.4	-4.667	-0.0025	Pass		
		20	3.8	-5.051	-0.0027	Pass		
			4.4	-5.302	-0.0028	Pass		
	1880	-30	3.8	-4.530	-0.0024	Pass		
		-20	3.8	-4.488	-0.0024	Pass		
GSM		-10	3.8	-2.232	-0.0012	Pass		
			0	3.8	-5.553	-0.0030	Pass	
				10	3.8	-2.977	-0.0016	Pass
			30	3.8	-3.445	-0.0018	Pass	
		40	3.8	-6.098	-0.0032	Pass		
		50	3.8	-5.385	-0.0029	Pass		
			3.4	-7.687	-0.0040	Pass		
		20	3.8	-6.989	-0.0037	Pass		
			4.4	-7.793	-0.0041	Pass		
		-30	3.8	-6.586	-0.0034	Pass		
		-20	3.8	-7.576	-0.0040	Pass		
	1909.8	-10	3.8	-6.965	-0.0036	Pass		
		0	3.8	-7.936	-0.0042	Pass		
		10	3.8	-7.855	-0.0041	Pass		
		30	3.8	-6.958	-0.0036	Pass		
		40	3.8	-6.065	-0.0032	Pass		
		50	3.8	-6.306	-0.0033	Pass		
			3.4	-13.258	-0.0072	Pass		
ECDDC.	1050.0	20	3.8	-9.456	-0.0051	Pass		
EGPRS	1850.2		4.4	-11.385	-0.0062	Pass		
		-30	3.8	-11.247	-0.0061	Pass		



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	-20	3.8	-12.269	-0.0066	Pass
	-10	3.8	-10.405	-0.0056	Pass
	0	3.8	-12.621	-0.0068	Pass
	10	3.8	-11.758	-0.0064	Pass
	30	3.8	-10.079	-0.0054	Pass
	40	3.8	-14.045	-0.0076	Pass
	50	3.8	-7.075	-0.0038	Pass
		3.4	-8.305	-0.0044	Pass
	20	3.8	-6.499	-0.0035	Pass
		4.4	-9.959	-0.0053	Pass
	-30	3.8	-10.992	-0.0058	Pass
	-20	3.8	-9.499	-0.0051	Pass
1880	-10	3.8	-12.673	-0.0067	Pass
	0	3.8	-11.179	-0.0059	Pass
	10	3.8	-12.219	-0.0065	Pass
	30	3.8	-12.935	-0.0069	Pass
	40	3.8	-15.189	-0.0081	Pass
	50	3.8	-13.789	-0.0073	Pass
		3.4	-12.159	-0.0064	Pass
	20	3.8	-10.452	-0.0055	Pass
		4.4	-15.176	-0.0079	Pass
	-30	3.8	-14.761	-0.0077	Pass
	-20	3.8	-21.732	-0.0114	Pass
1909.8	-10	3.8	-14.932	-0.0078	Pass
	0	3.8	-15.659	-0.0082	Pass
	10	3.8	-14.716	-0.0077	Pass
	30	3.8	-16.661	-0.0087	Pass
	40	3.8	-17.144	-0.0090	Pass
	50	3.8	-16,429	-0.0086	Pass



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#### 3. Field Strength of Spurious Radiation

Test Band = GSM1900\_ Test Channel = Low

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3700.4000	39.68	-45.50	28.80	-72.28	-13.00	59.28	Horizontal			
2	5550.6000	39.53	-45.15	32.61	-68.27	-13.00	55.27	Horizontal			
3	7400.8000	38.49	-43.41	36.32	-63.85	-13.00	50.85	Horizontal			
4	9251.0000	33.92	-40.23	36.78	-64.80	-13.00	51.80	Horizontal			
5	11101.2000	29.95	-37.96	38.71	-64.56	-13.00	51.56	Horizontal			
6	14116.5	28.36	-36.03	40.95	-61.99	-13.00	48.99	Horizontal			

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3700.4000	40.35	-45.50	28.80	-71.61	-13.00	58.61	Vertical			
2	5550.6000	39.48	-45.15	32.61	-68.32	-13.00	55.32	Vertical			
3	7400.8000	38.37	-43.41	36.32	-63.97	-13.00	50.97	Vertical			
4	9251.0000	33.90	-40.23	36.78	-64.82	-13.00	51.82	Vertical			
5	11101.2000	29.84	-37.96	38.71	-64.67	-13.00	51.67	Vertical			
6	14286	29.49	-36.04	41.01	-60.80	-13.00	47.80	Vertical			



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#### Test Band = GSM1900\_ Test Channel = Mid

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3760.0000	39.78	-45.75	28.86	-72.37	-13.00	59.37	Horizontal			
2	5640.0000	38.51	-44.98	32.63	-69.10	-13.00	56.10	Horizontal			
3	7520.0000	37.46	-43.10	36.61	-64.29	-13.00	51.29	Horizontal			
4	9400.0000	33.65	-39.83	37.06	-64.38	-13.00	51.38	Horizontal			
5	11280.0000	31.10	-37.41	38.73	-62.85	-13.00	49.85	Horizontal			
6	14345.25	29.41	-35.54	41.04	-60.36	-13.00	47.36	Horizontal			

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3760.0000	40.53	-45.75	28.86	-71.62	-13.00	58.62	Vertical			
2	5640.0000	37.62	-44.98	32.63	-69.99	-13.00	56.99	Vertical			
3	7520.0000	37.53	-43.10	36.61	-64.22	-13.00	51.22	Vertical			
4	9400.0000	34.23	-39.83	37.06	-63.80	-13.00	50.80	Vertical			
5	11280.0000	31.08	-37.41	38.73	-62.87	-13.00	49.87	Vertical			
6	14394	28.27	-34.88	41.06	-60.81	-13.00	47.81	Vertical			



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

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3345	41.94	-46.38	28.51	-71.19	-13.00	58.19	Horizontal			
2	3819.6000	40.14	-45.99	28.92	-72.19	-13.00	59.19	Horizontal			
3	7639.2000	37.54	-43.01	36.66	-64.07	-13.00	51.07	Horizontal			
4	9549.0000	32.66	-39.96	37.34	-65.21	-13.00	52.21	Horizontal			
5	11458.8000	29.42	-37.33	38.75	-64.43	-13.00	51.43	Horizontal			
6	13375.5	29.65	-36.45	39.78	-62.28	-13.00	49.28	Horizontal			

Data	Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity			
1	3390.75	41.79	-46.30	28.53	-71.23	-13.00	58.23	Vertical			
2	3819.6000	40.61	-45.99	28.92	-71.72	-13.00	58.72	Vertical			
3	7639.2000	37.00	-43.01	36.66	-64.61	-13.00	51.61	Vertical			
4	9549.0000	32.89	-39.96	37.34	-64.98	-13.00	51.98	Vertical			
5	11458.8000	29.37	-37.33	38.75	-64.48	-13.00	51.48	Vertical			
6	15363	28.21	-33.83	40.54	-60.35	-13.00	47.35	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) - Preamplifier (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.



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#### 4. 99% & 26dB Bandwidth

4.1 PCS1900\_OBW

#### 4.1.1 Test Result

			Band: PC	S1900		
ENI)/	M	lode	Frequency	99% Occupied E	Bandwidth (MHz)	Verdict
ENV	Network	Subset	(MHz)	Result	Limit	verdict
			1850.2	0.249	/	Pass
	GSM	GSM	1880	0.245	/	Pass
NTNV			1909.8	0.246	/	Pass
INTINV			1850.2	0.256	/	Pass
	EGPRS	1 TX Slot	1880	0.255	/	Pass
I			1909.8	0.260	1	Pass



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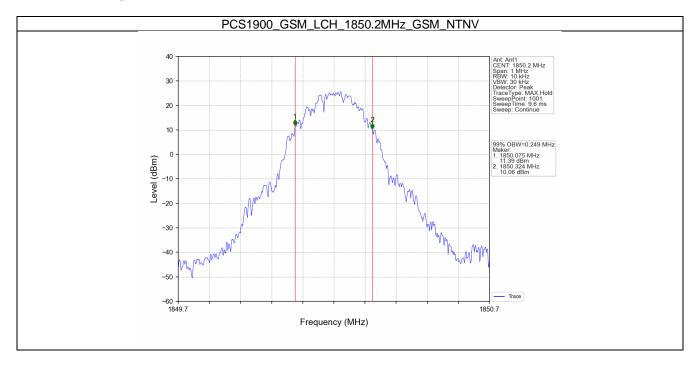


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#### 4.1.2 Test Graph





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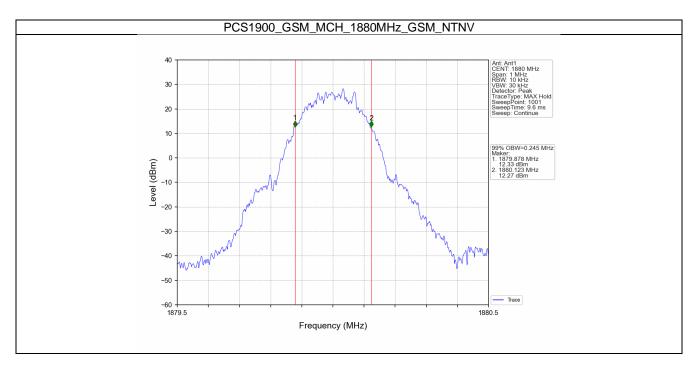
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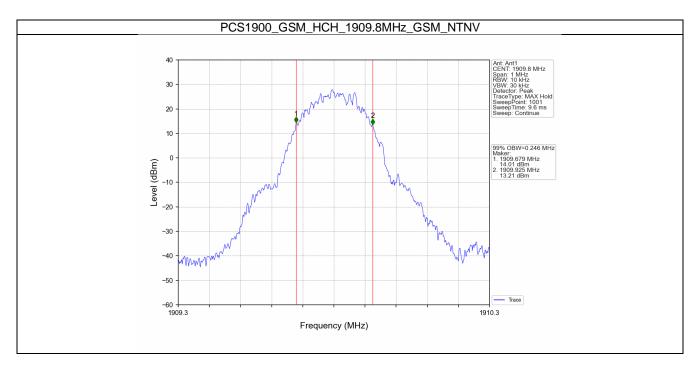
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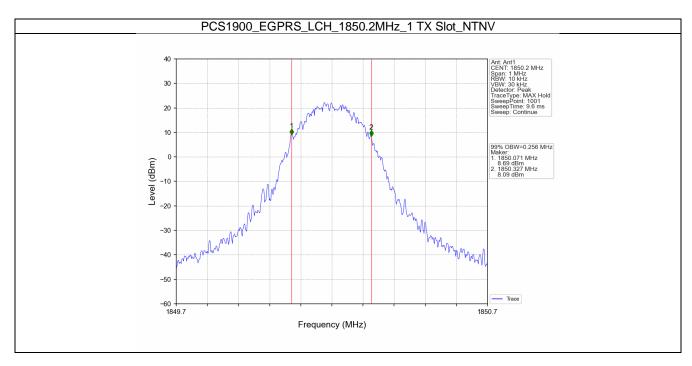
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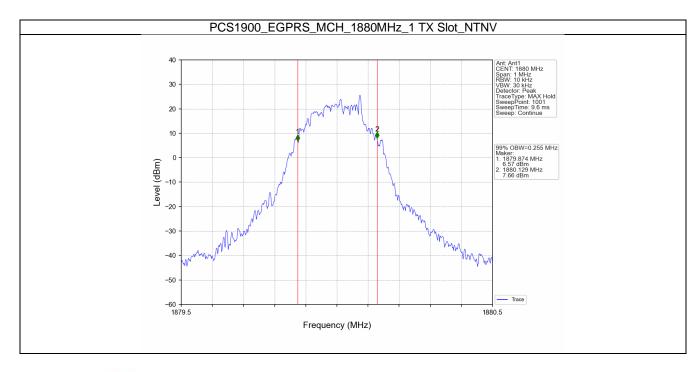


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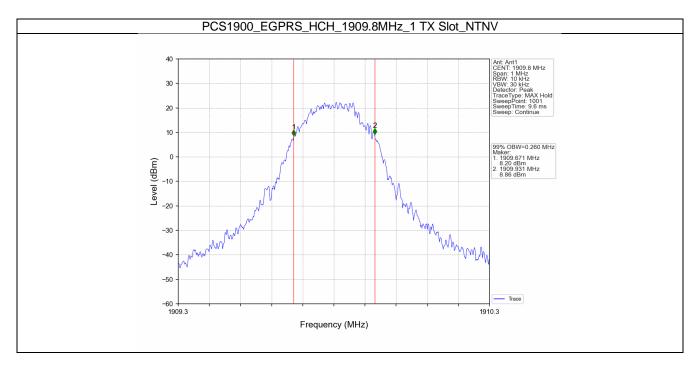
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#### 4.2 PCS1900\_XDB

#### 4.2.1 Test Result

			Band: PCS190	0		
ENV	Mode		Frequency	26dB Band	Verdict	
EINV	Network	Subset	(MHz)	Result	Limit	verdict
			1850.2	0.313	/	Pass
	GSM	GSM	1880	0.314	/	Pass
NTNV			1909.8	0.318	/	Pass
INTINV			1850.2	0.332	/	Pass
	EGPRS	1 TX Slot	1880	0.316	/	Pass
			1909.8	0.337	/	Pass



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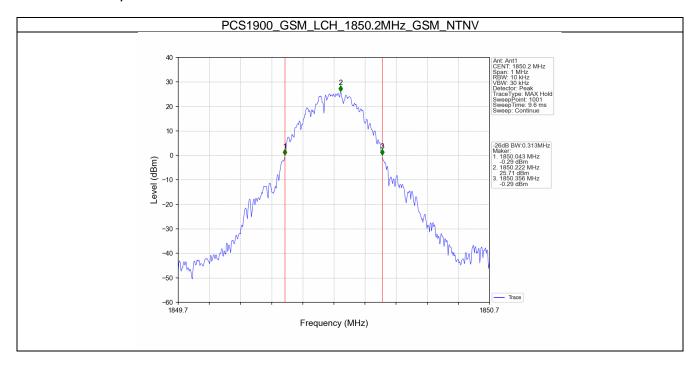


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#### 4.2.2 Test Graph





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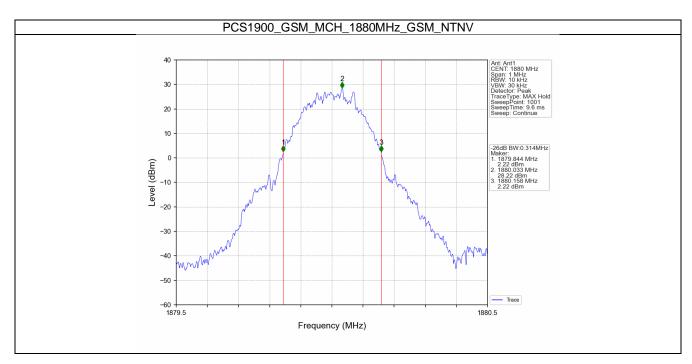
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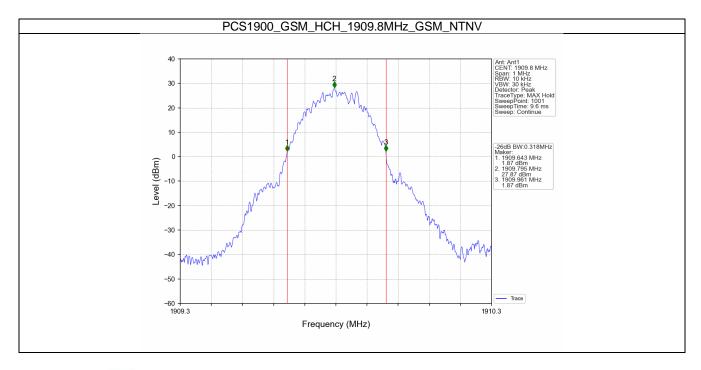


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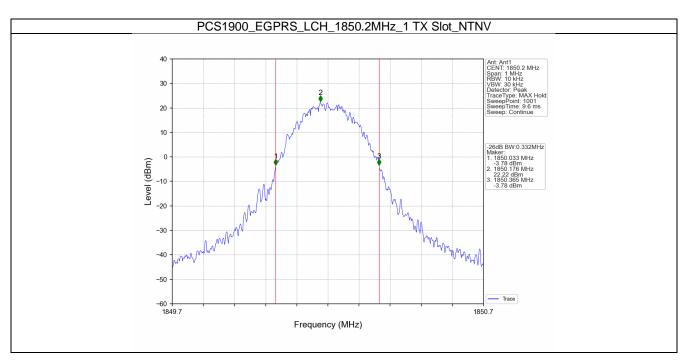
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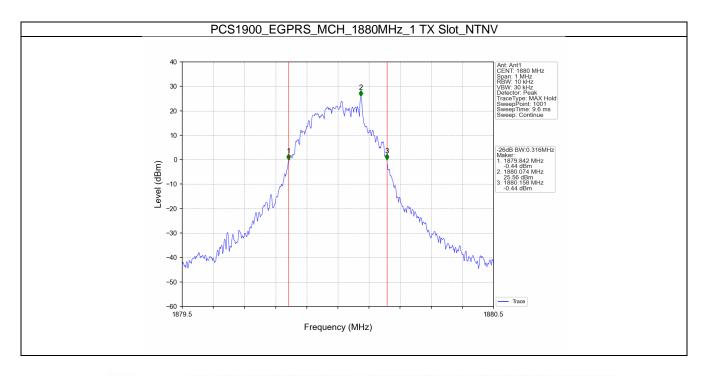


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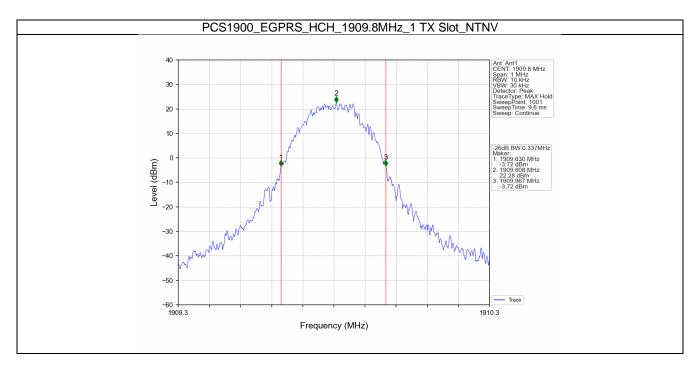
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#### 5. Peak-Average Ratio

#### 5.1 PCS1900

#### 5.1.1 Test Result

			Band: PCS19	900		
ENV	Mode		Frequency	Peak-Avera	Verdict	
EINV	Network Subset		(MHz)	Result	Limit	verdict
			1850.2	9.62	<=13	Pass
	GSM	GSM	1880	9.46	<=13	Pass
NTNV			1909.8	9.12	<=13	Pass
INTINV			1850.2	8.47	<=13	Pass
	EGPRS	4 TX Slots	1880	8.45	<=13	Pass
			1909.8	8.19	<=13	Pass



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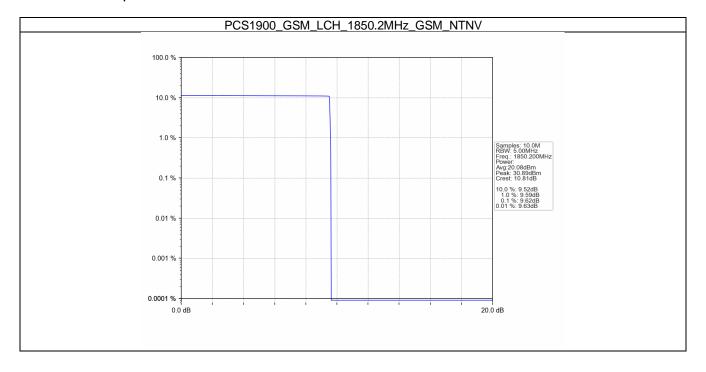


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#### 5.1.2 Test Graph





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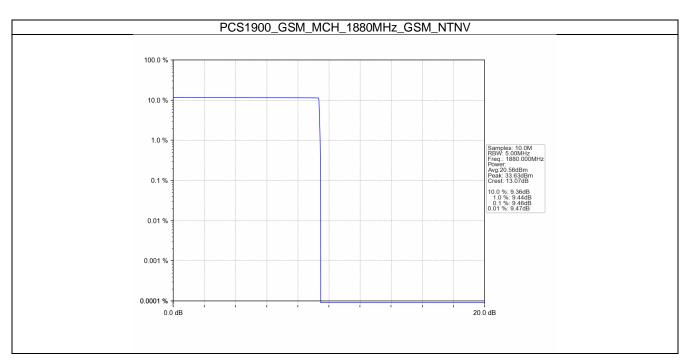
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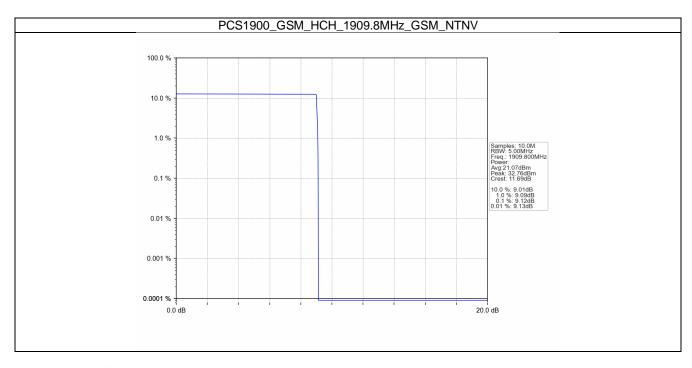


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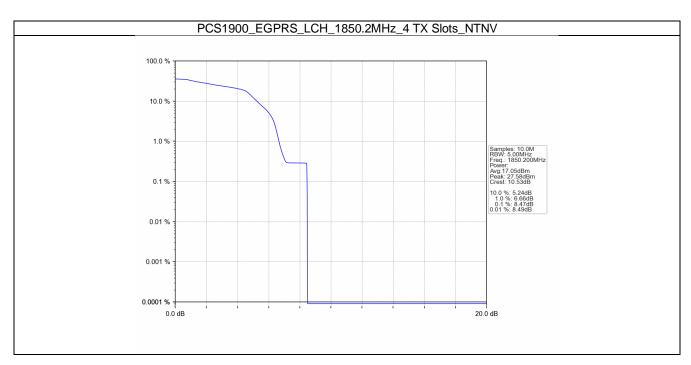
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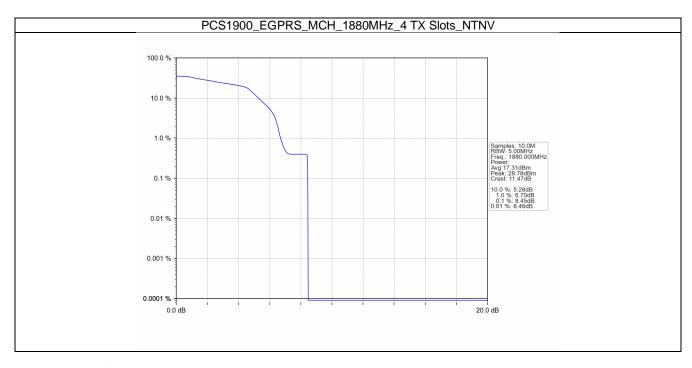


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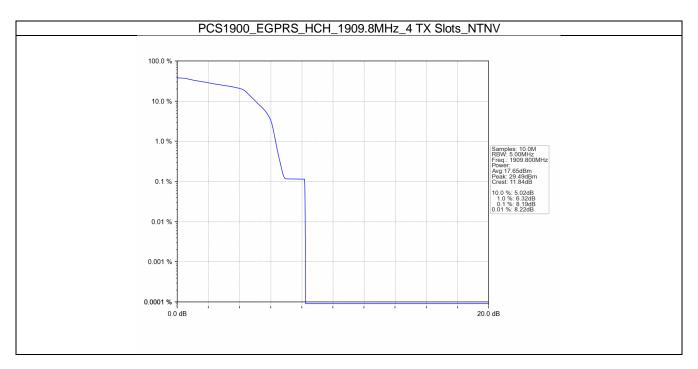
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### 6. Spurious Emission & Band Edges

#### 6.1 PCS1900

#### 6.1.1 Test Result

			Band: PCS19	00		
ENV	Mode		Frequency	Spurious Emission		Verdict
	Network	Subset	(MHz)	Result	Limit	verdict
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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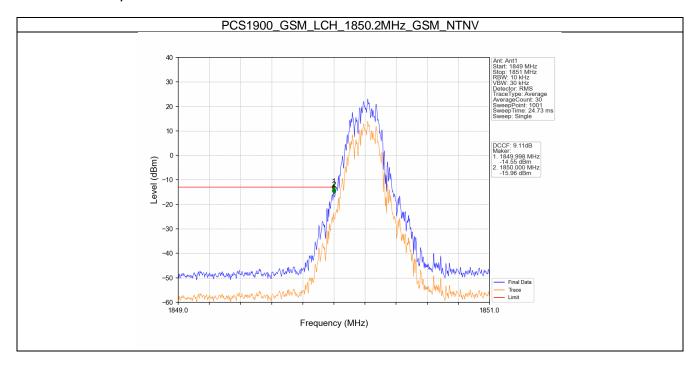


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#### 6.1.2 Test Graph





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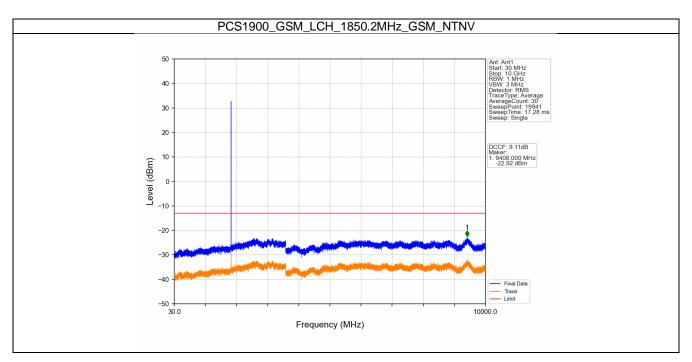
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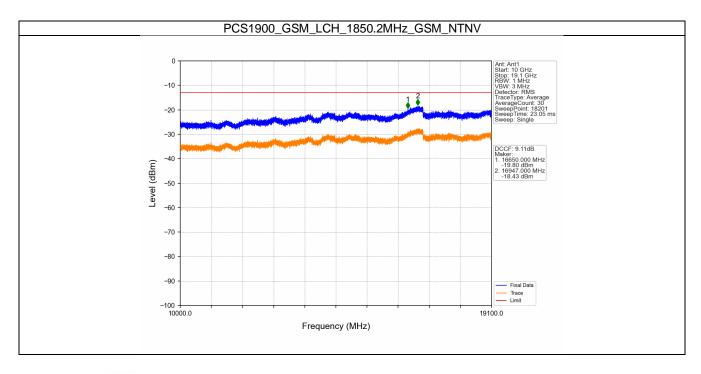


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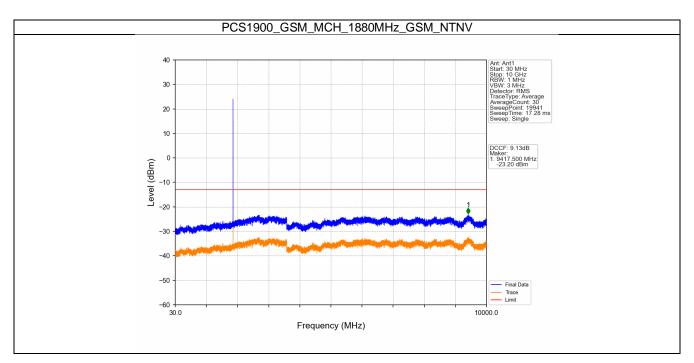
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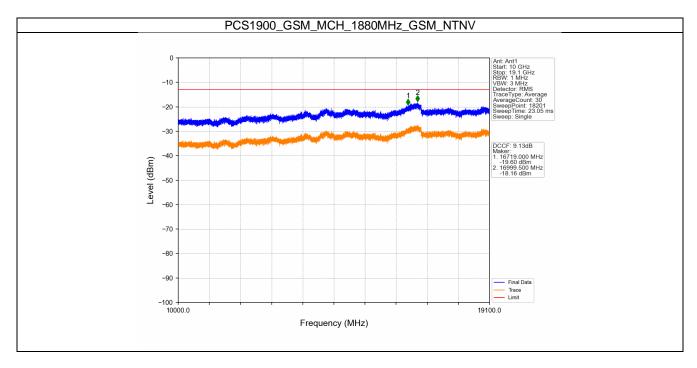


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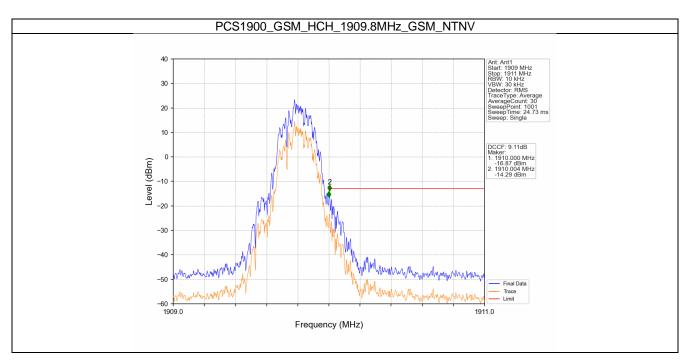
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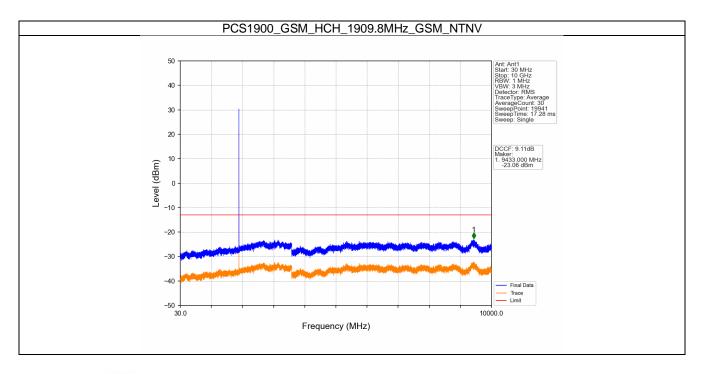


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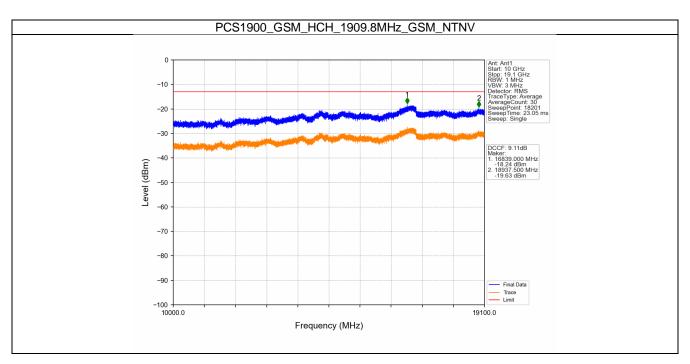
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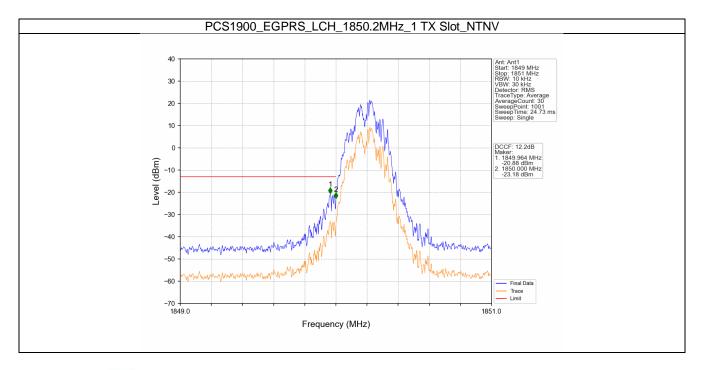


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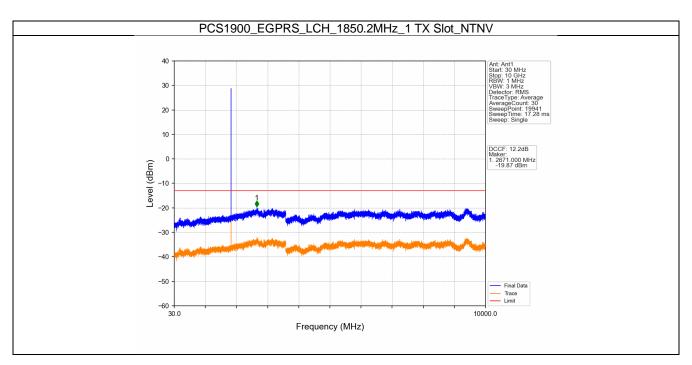
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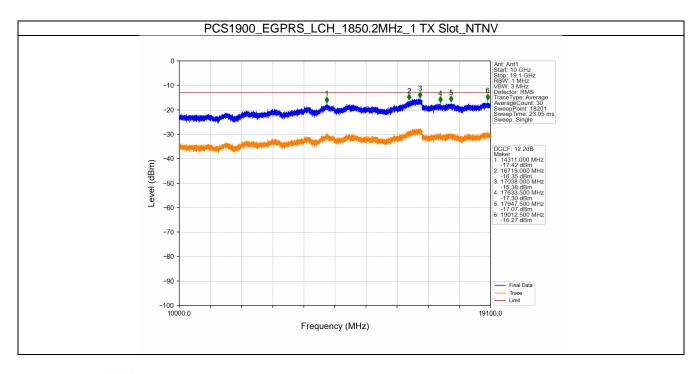


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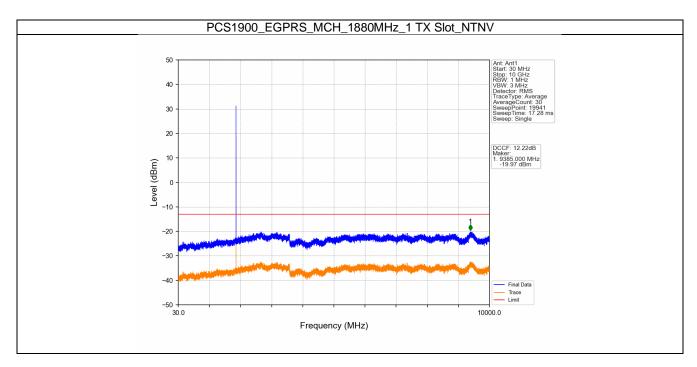
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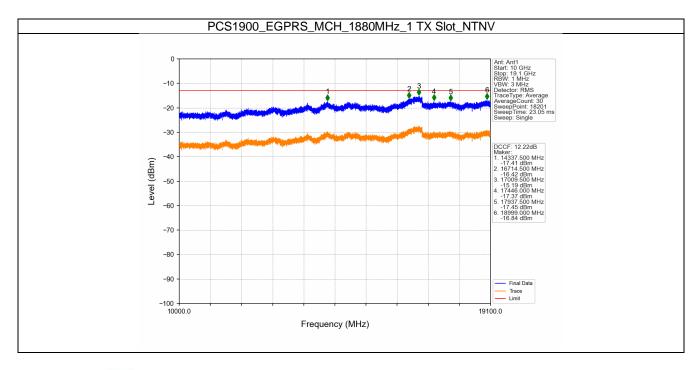


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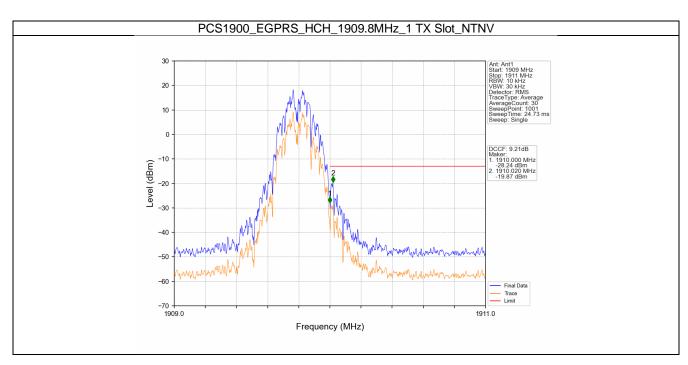
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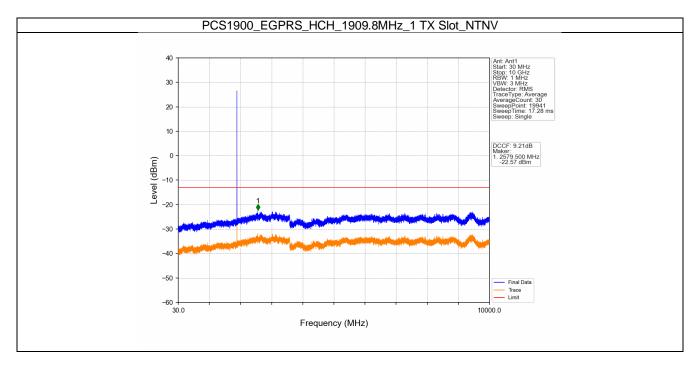


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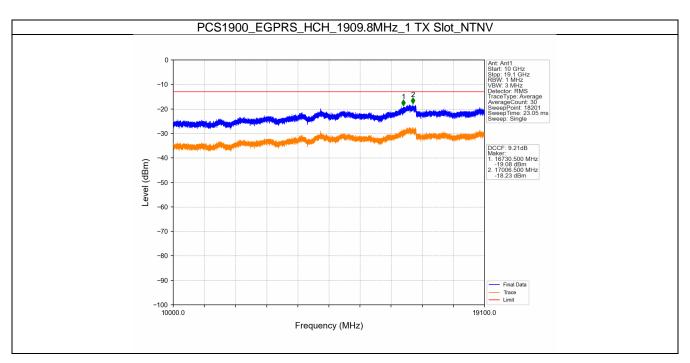
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