



Report No.: SEWM2311000478RG01

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# Appendix B.2

## GSM 1900



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## Effective (Isotropic) Radiated Power Output Data

PCS1900\_EIRP Ant1

### 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	27.22	0.90	28.12	<=33.00	Pass
			1880	27.24	0.90	28.14	<=33.00	Pass
			1909.8	27.29	0.90	28.19	<=33.00	Pass
	EGPRS	1 TX Slot	1850.2	22.87	0.90	23.77	<=33.00	Pass
		2 TX Slots	1850.2	22.54	0.90	23.44	<=33.00	Pass
		3 TX Slots	1850.2	20.36	0.90	21.26	<=33.00	Pass
		4 TX Slots	1850.2	19.87	0.90	20.77	<=33.00	Pass
		1 TX Slot	1880	22.57	0.90	23.47	<=33.00	Pass
		2 TX Slots	1880	22.40	0.90	23.3	<=33.00	Pass
		3 TX Slots	1880	20.62	0.90	21.52	<=33.00	Pass
		4 TX Slots	1880	19.88	0.90	20.78	<=33.00	Pass
		1 TX Slot	1909.8	22.88	0.90	23.78	<=33.00	Pass
		2 TX Slots	1909.8	22.43	0.90	23.33	<=33.00	Pass
		3 TX Slots	1909.8	20.51	0.90	21.41	<=33.00	Pass
		4 TX Slots	1909.8	19.97	0.90	20.87	<=33.00	Pass

Note1: EIRP=Conducted Power+Antenna Gain



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## Peak-Average Ratio

### PCS1900

### Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	9.75	<=13	Pass
			1880	9.77	<=13	Pass
			1909.8	9.65	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.74	<=13	Pass
			1880	7.40	<=13	Pass
			1909.8	7.93	<=13	Pass



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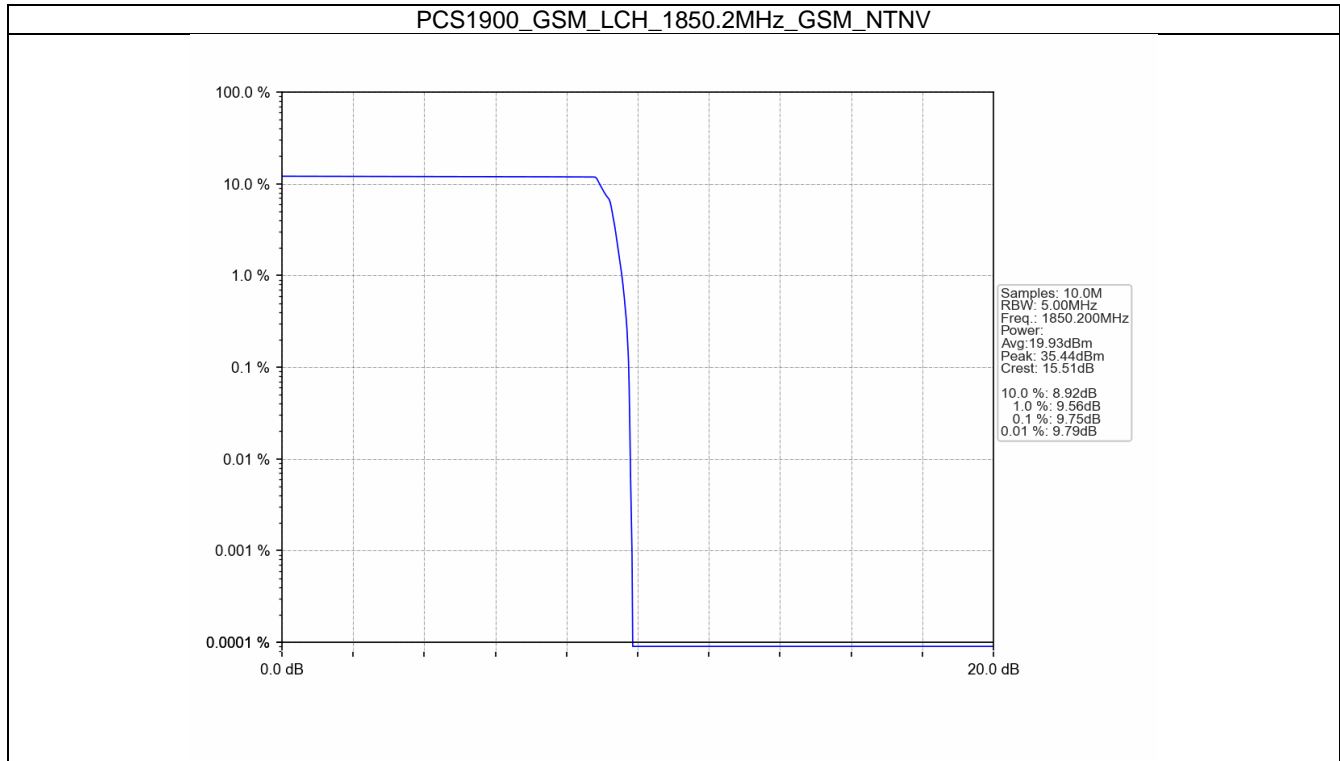


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## Test Graph



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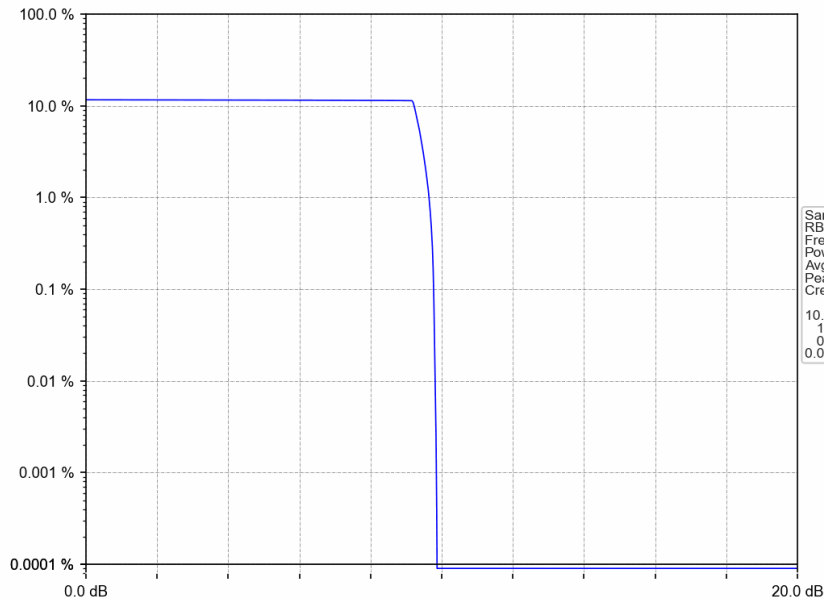


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PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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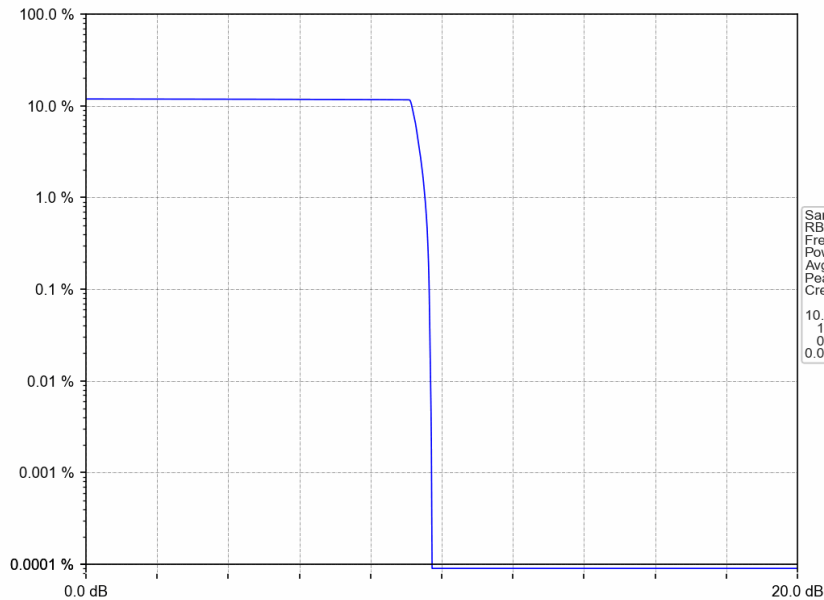


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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



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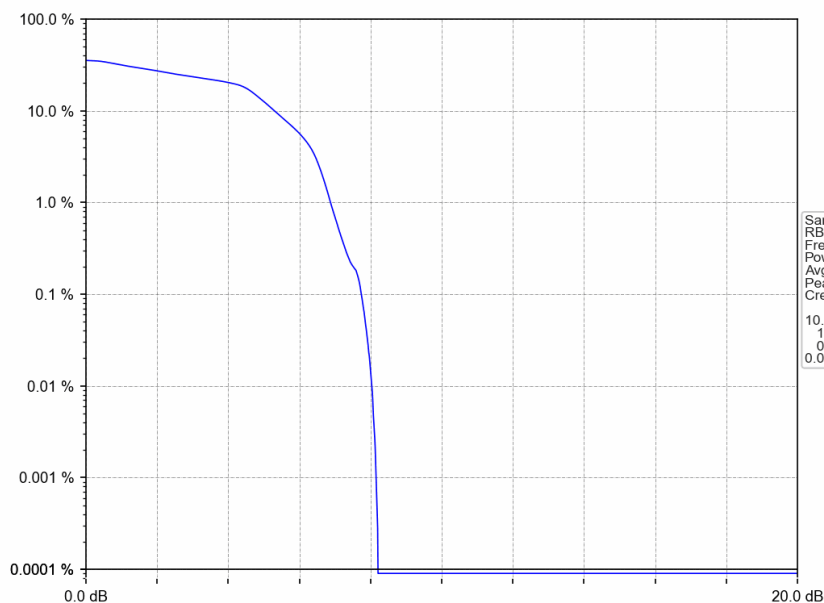


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PCS1900\_EGPRS\_LCH\_1850.2MHz\_4 TX Slots\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 1850.200MHz  
Power:  
Avg: 14.98dBm  
Peak: 23.25dBm  
Crest: 8.27dB  
10.0 %: 5.30dB  
1.0 %: 6.87dB  
0.1 %: 7.74dB  
0.01 %: 8.04dB



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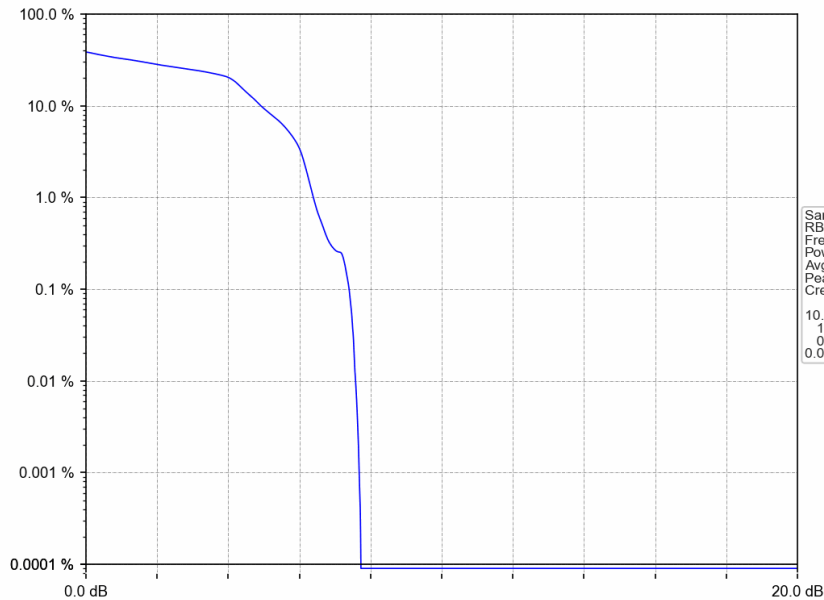


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PCS1900\_EGPRS\_MCH\_1880MHz\_4 TX Slots\_NTNV



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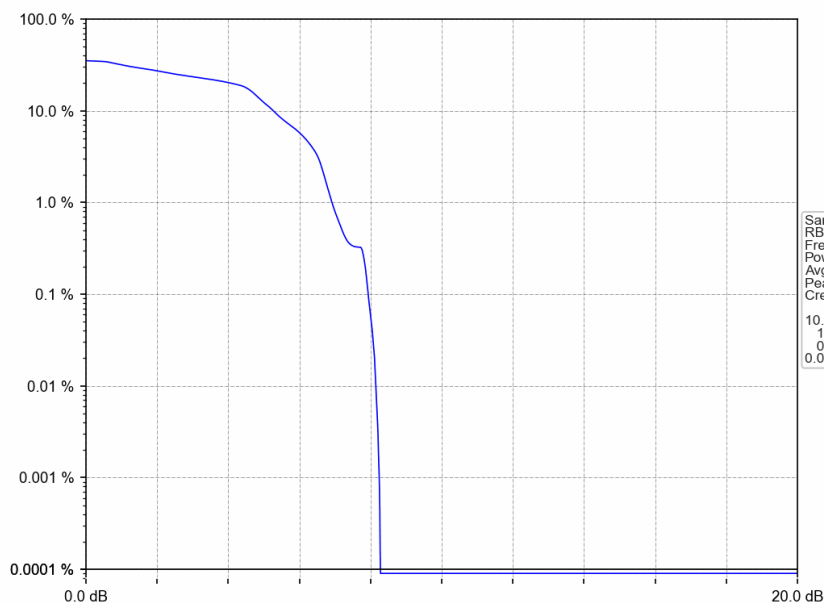


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PCS1900\_EGPRS\_HCH\_1909.8MHz\_4 TX Slots\_NTNV



Samples: 10.0M  
RBW: 5.00MHz  
Freq.: 1909.800MHz  
Power:  
Avg: 15.19dBm  
Peak: 23.54dBm  
Crest: 8.35dB  
10.0 %: 5.26dB  
1.0 %: 6.92dB  
0.1 %: 7.93dB  
0.01 %: 8.15dB



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**99% & 26dB Bandwidth**

PCS1900\_OBW

## 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	0.247	/	Pass
			1909.8	0.245	/	Pass
	EGPRS	1 TX Slot	1850.2	0.247	/	Pass
			1880	0.237	/	Pass
			1909.8	0.242	/	Pass



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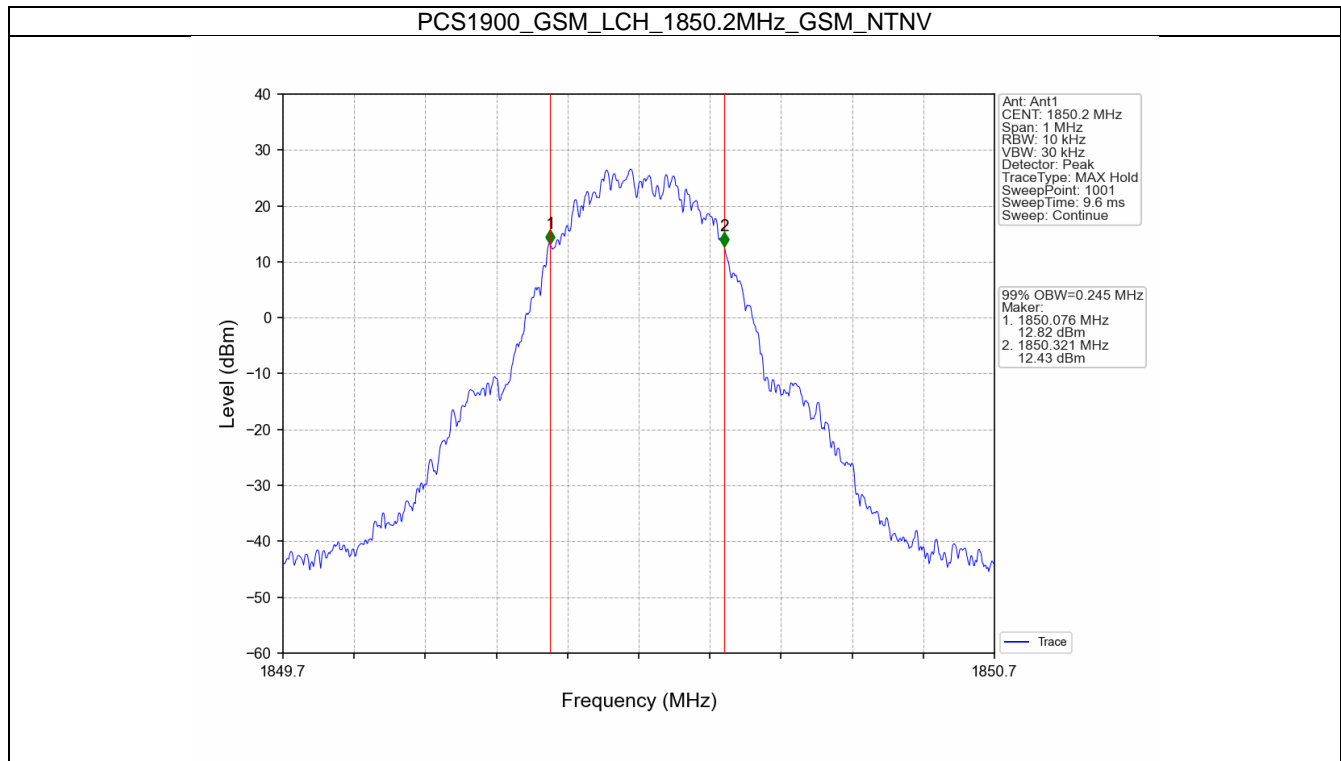
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### Test Graph



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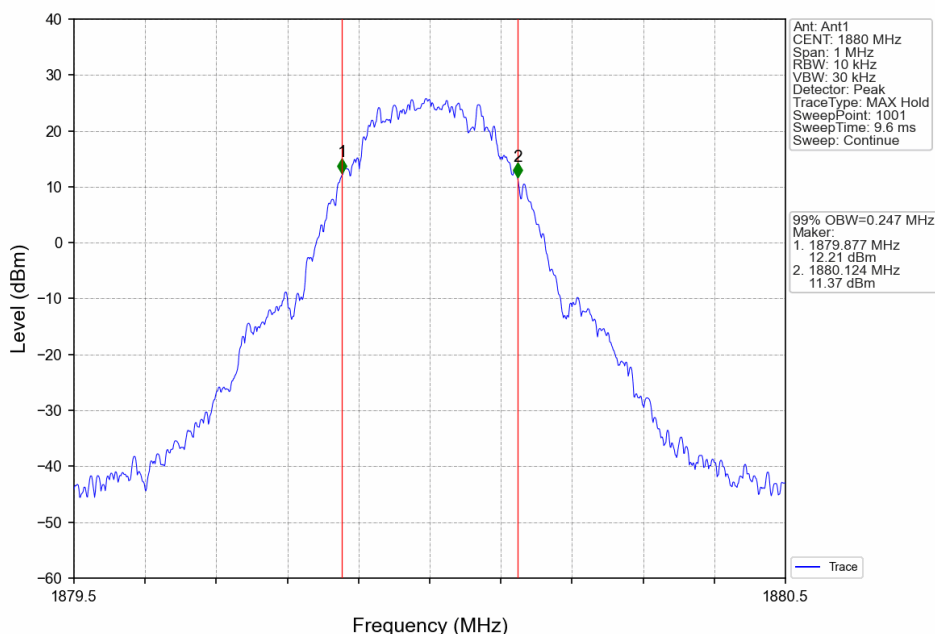
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PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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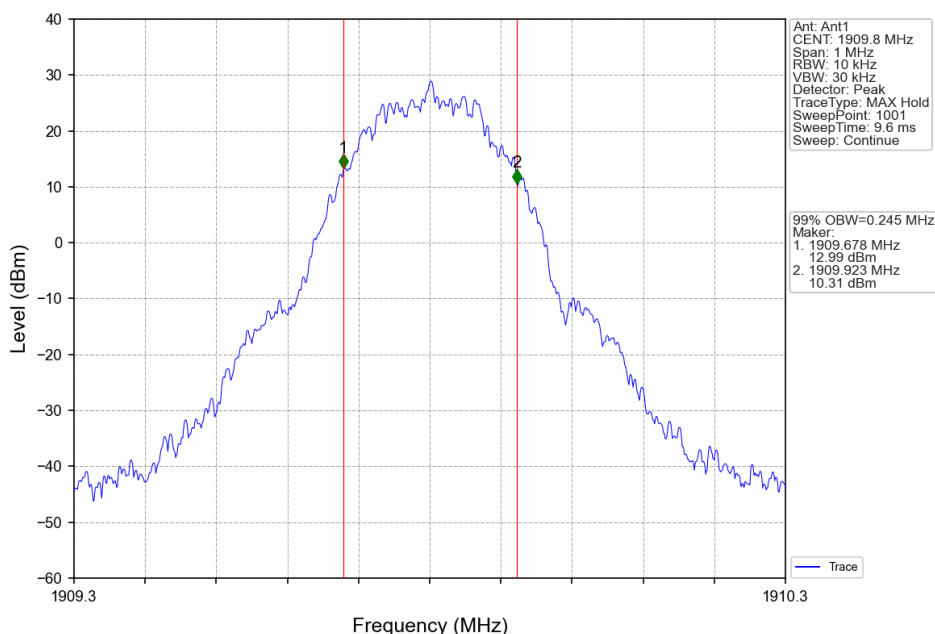
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



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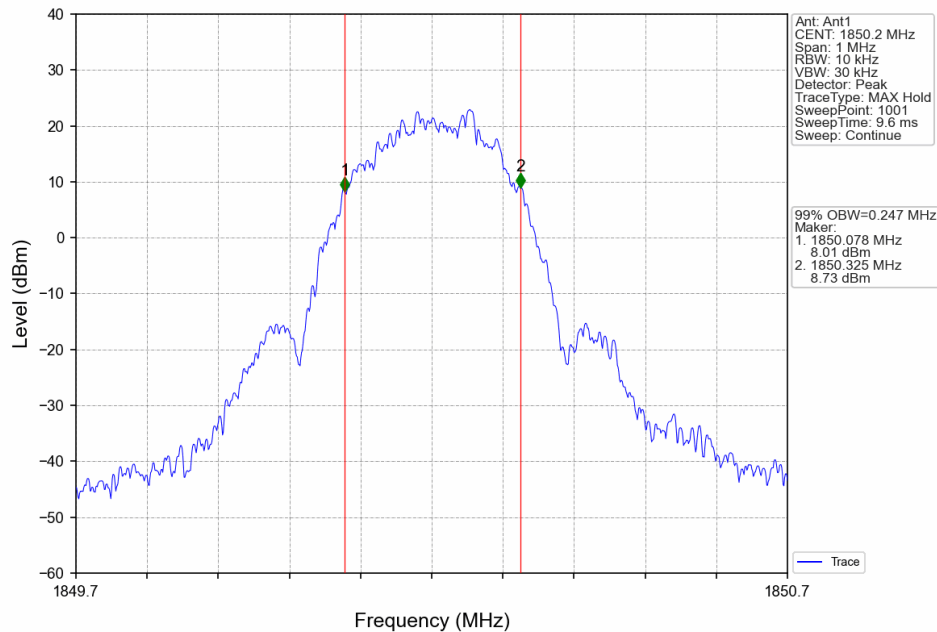
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### PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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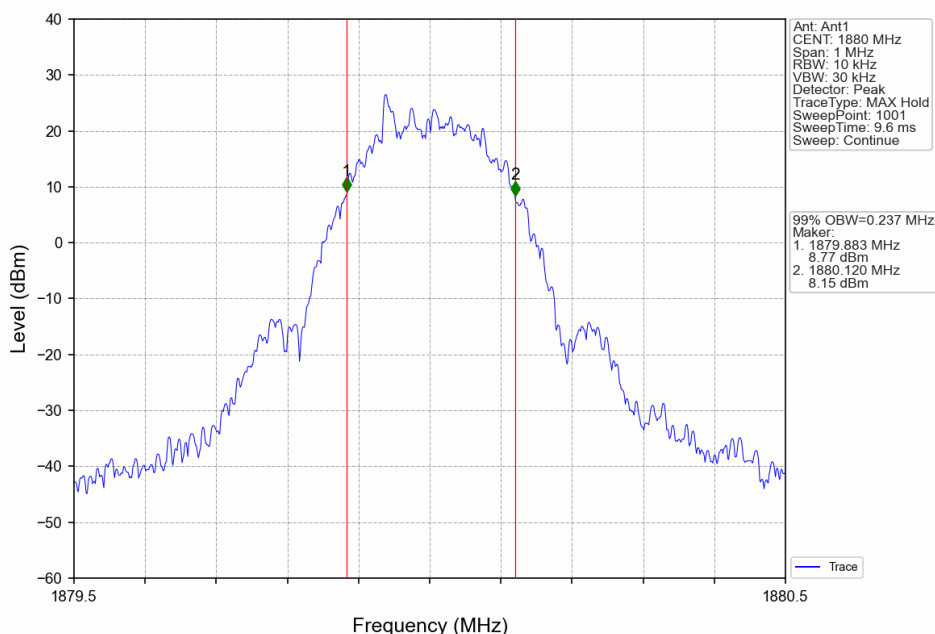


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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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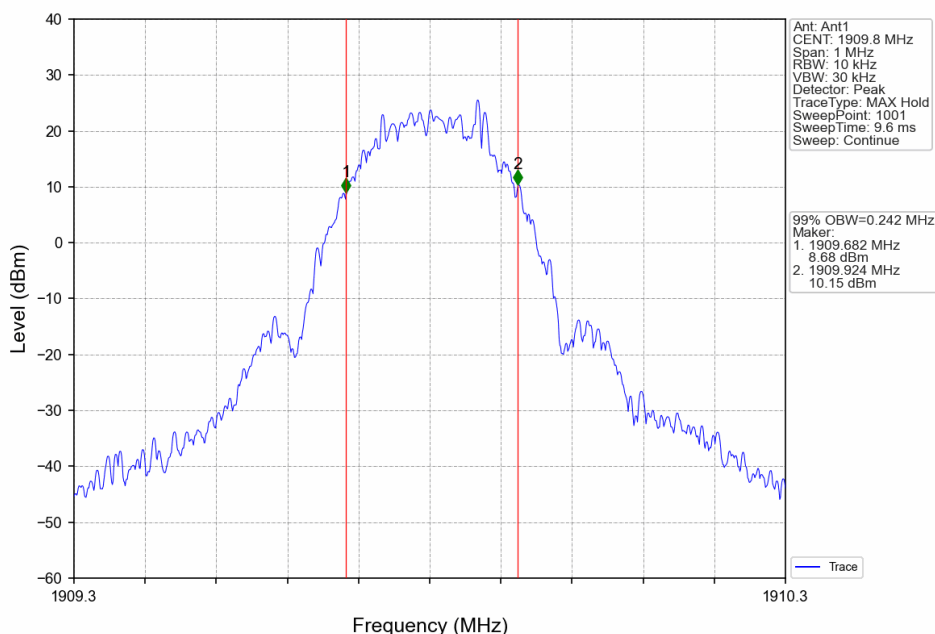
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PCS1900\_XDB

## Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GSM	GSM	1850.2	0.318	/	Pass
			1880	0.322	/	Pass
			1909.8	0.308	/	Pass
	EGPRS	1 TX Slot	1850.2	0.311	/	Pass
			1880	0.295	/	Pass
			1909.8	0.300	/	Pass



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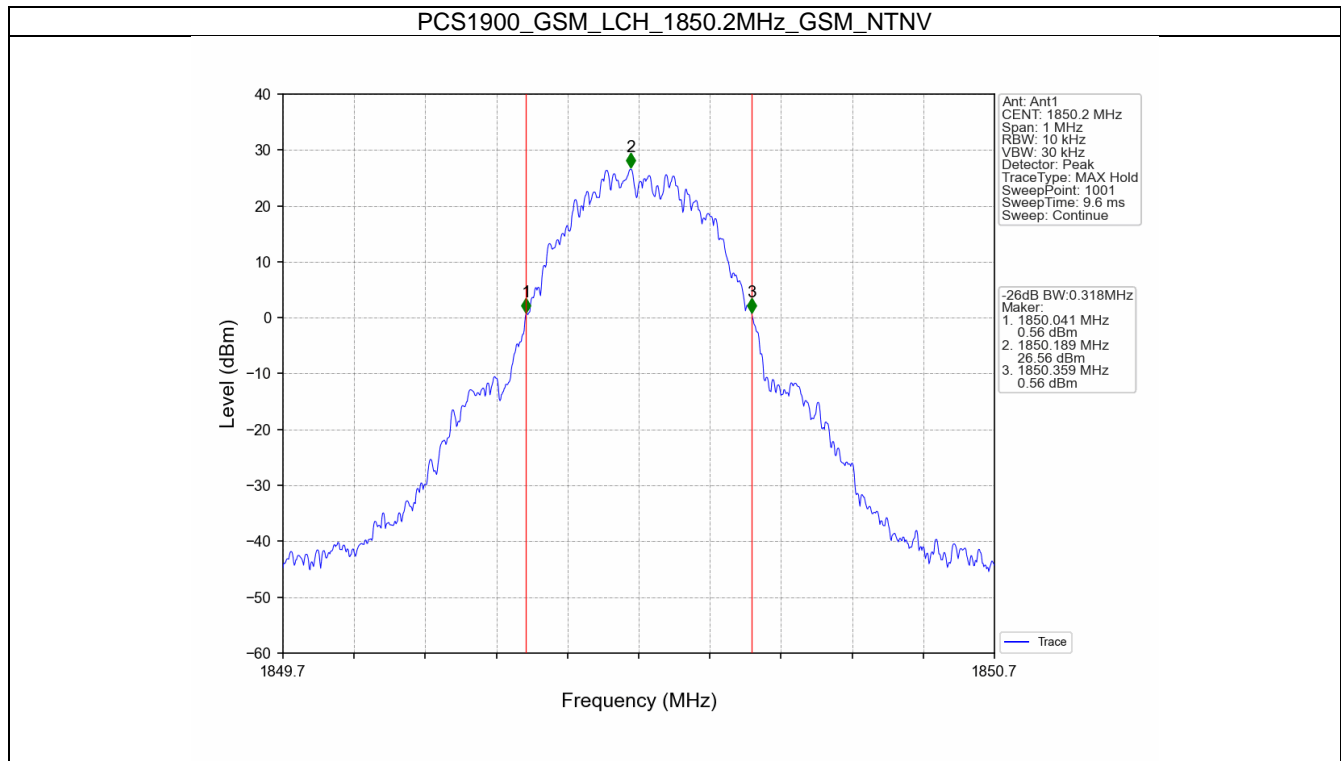
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### Test Graph



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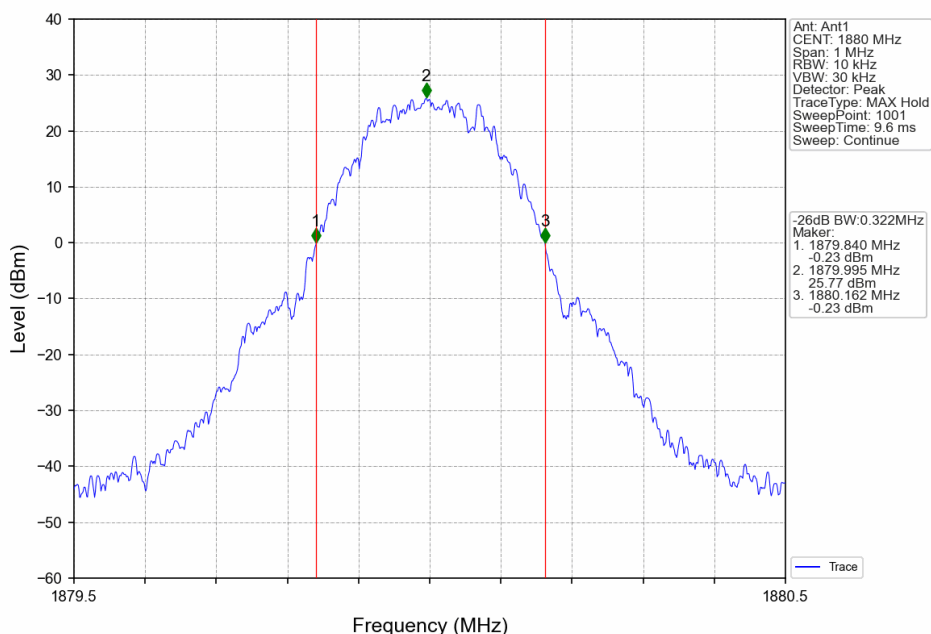
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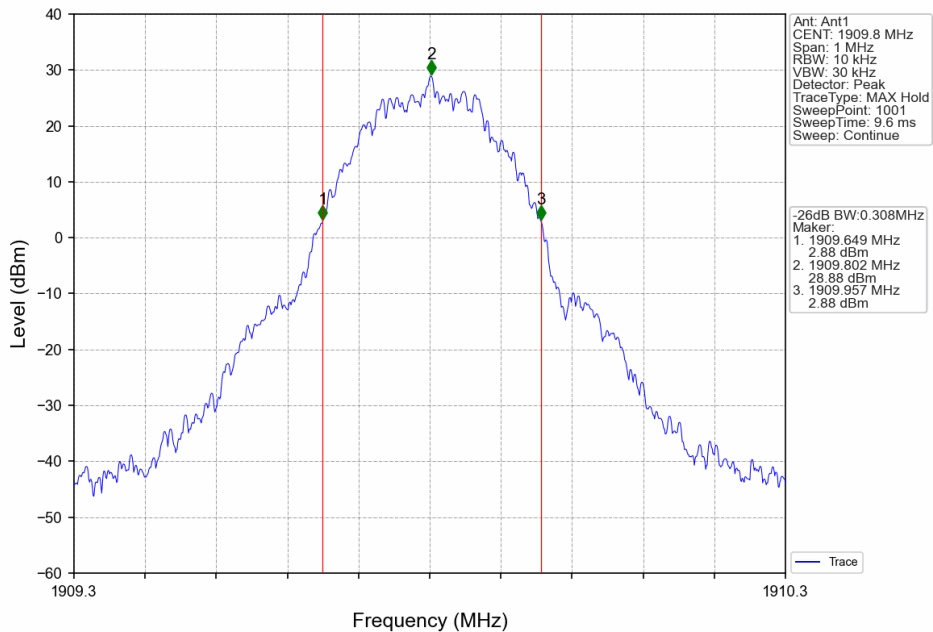
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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



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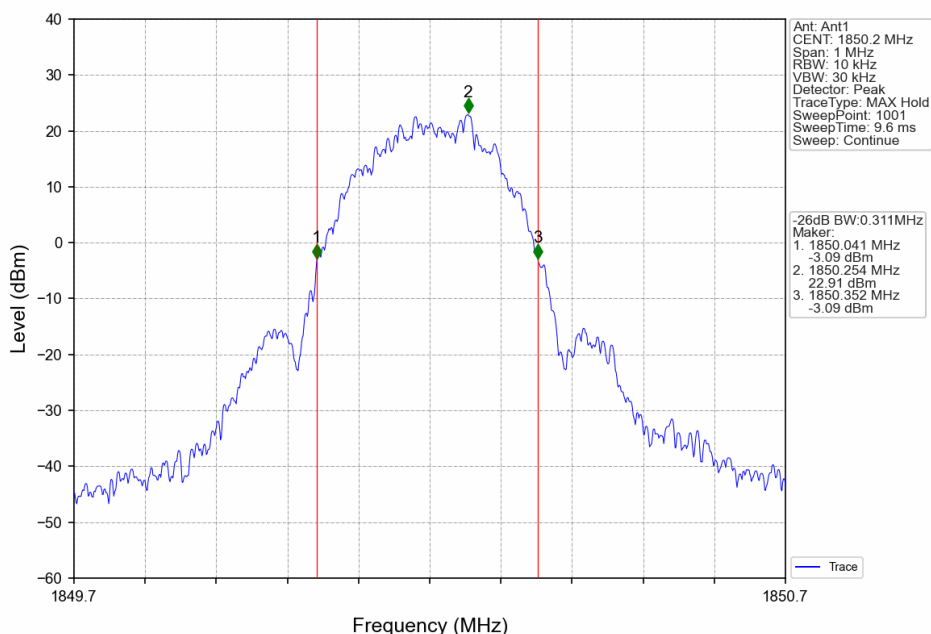


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### PCS1900\_EGPRS\_LCH\_1850.2MHz\_1 TX Slot\_NTNV



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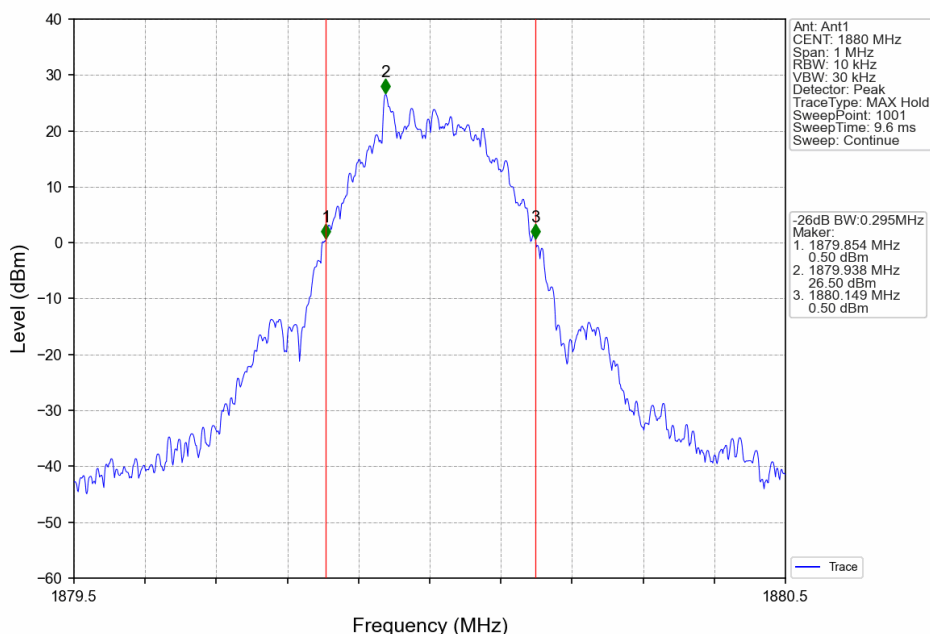
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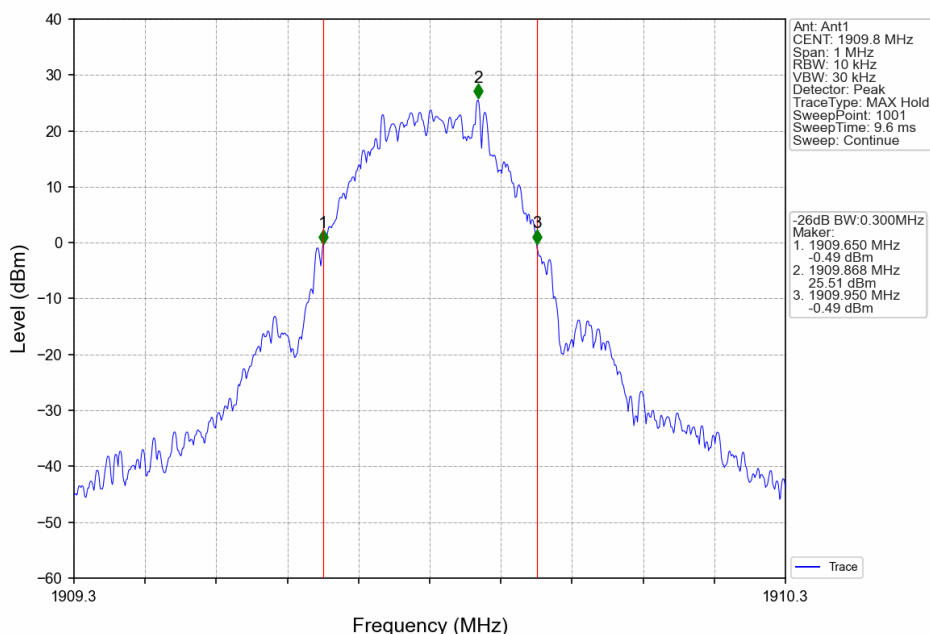
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**Spurious Emission & Band Edge**

PCS1900

**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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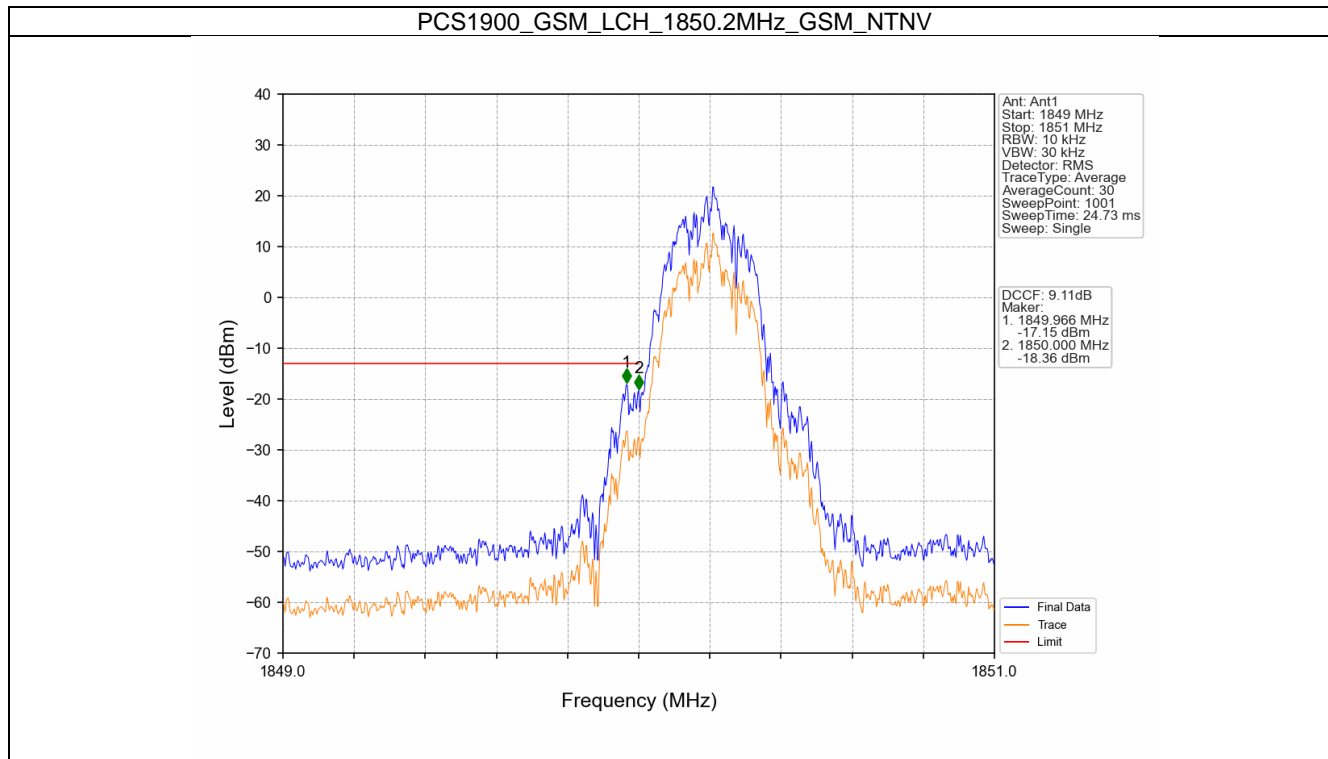
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### Test Graph



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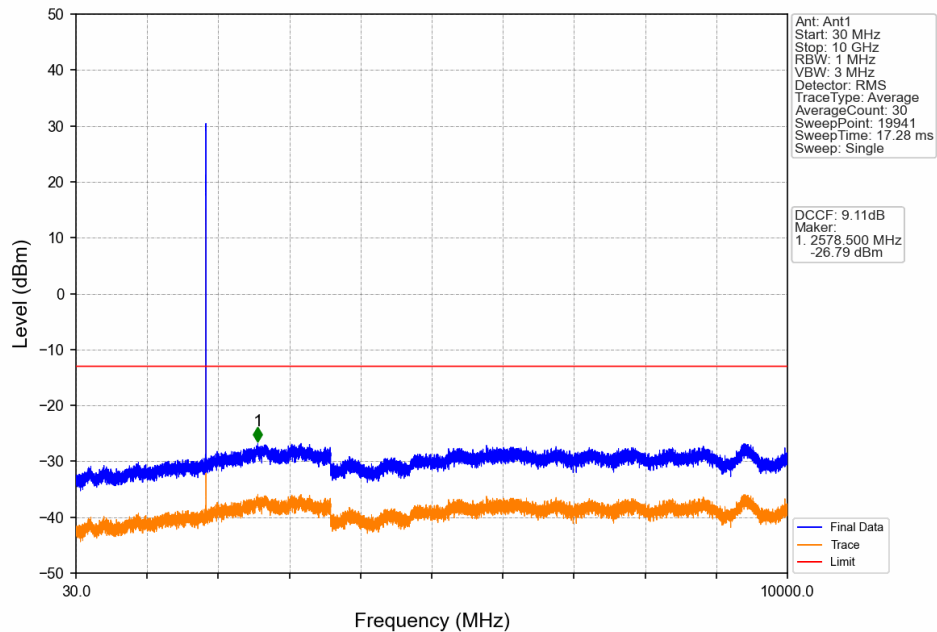


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PCS1900\_GSM\_LCH\_1850.2MHz\_GSM\_NTNV



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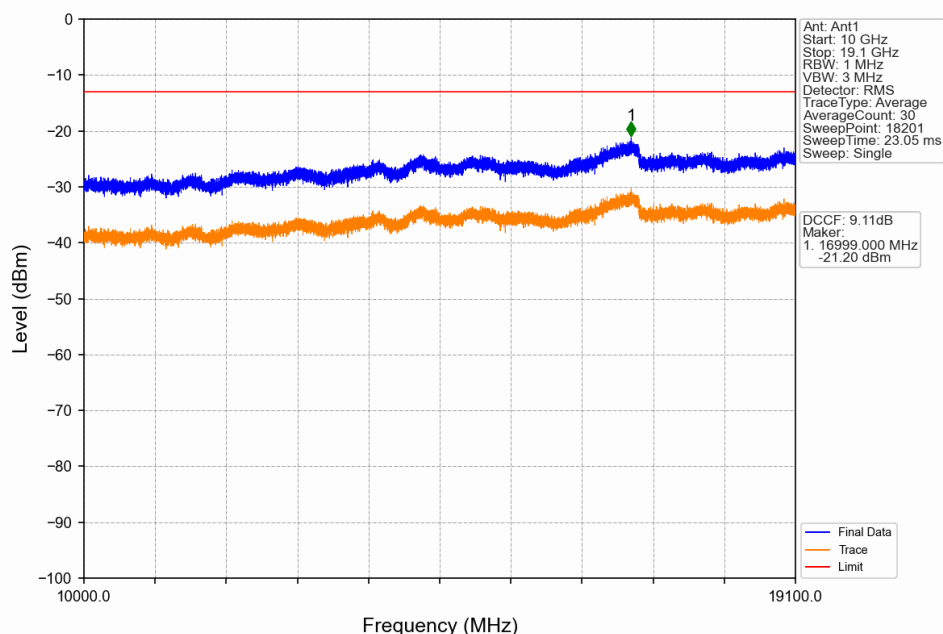


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PCS1900\_GSM\_LCH\_1850.2MHz\_GSM\_NTNV



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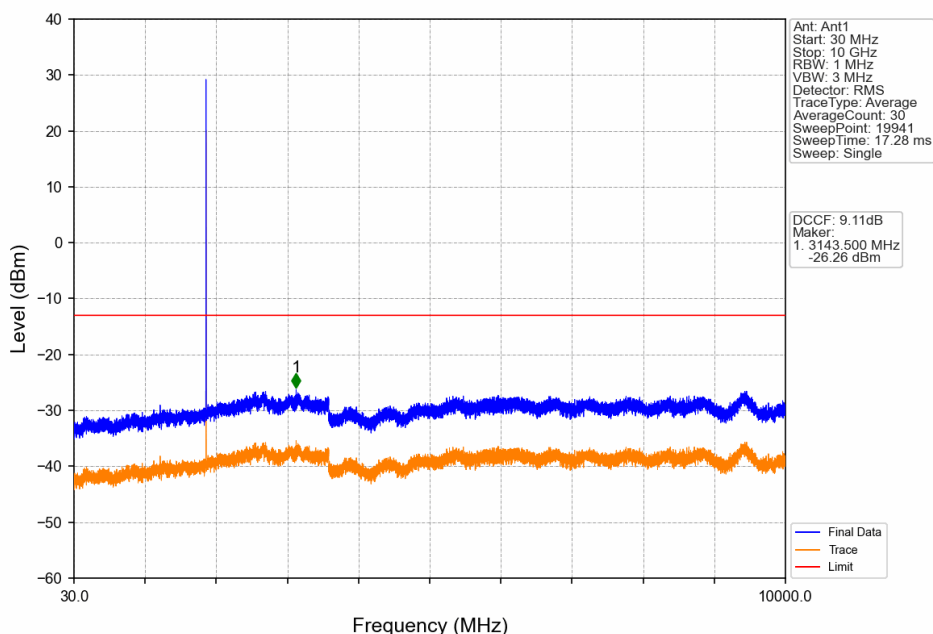


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PCS1900\_GSM\_MCH\_1880MHz\_GSM\_NTNV



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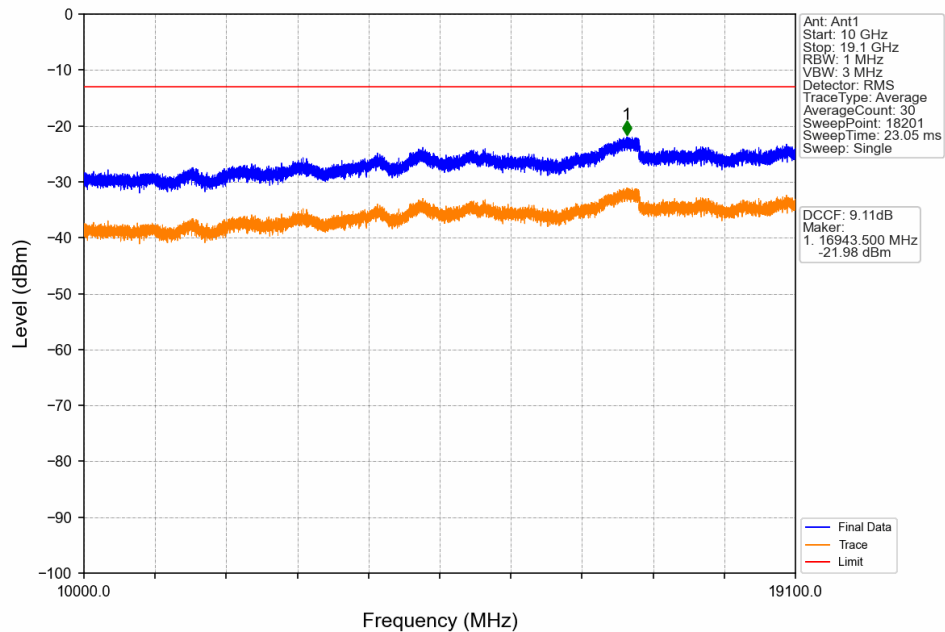


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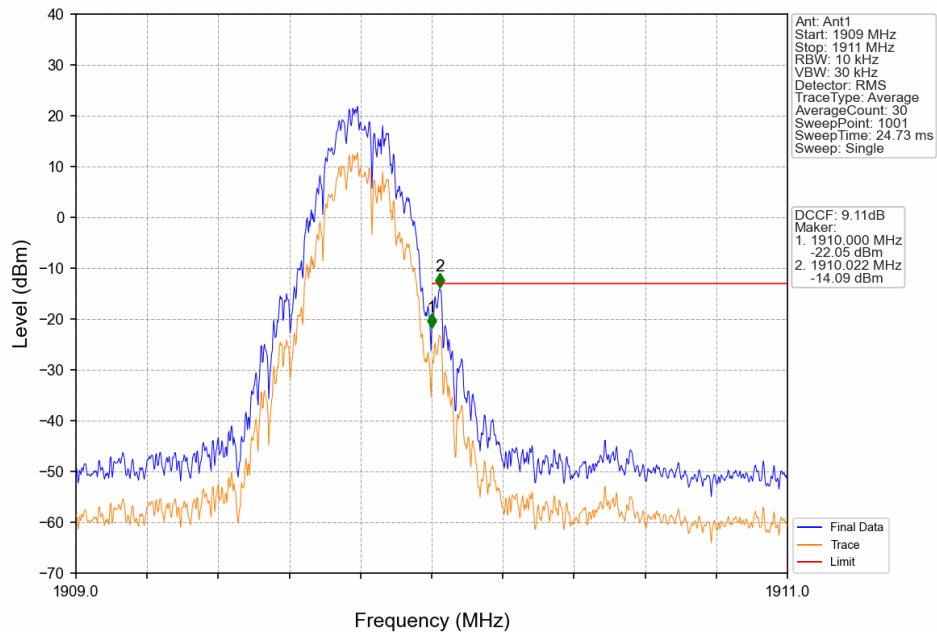


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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



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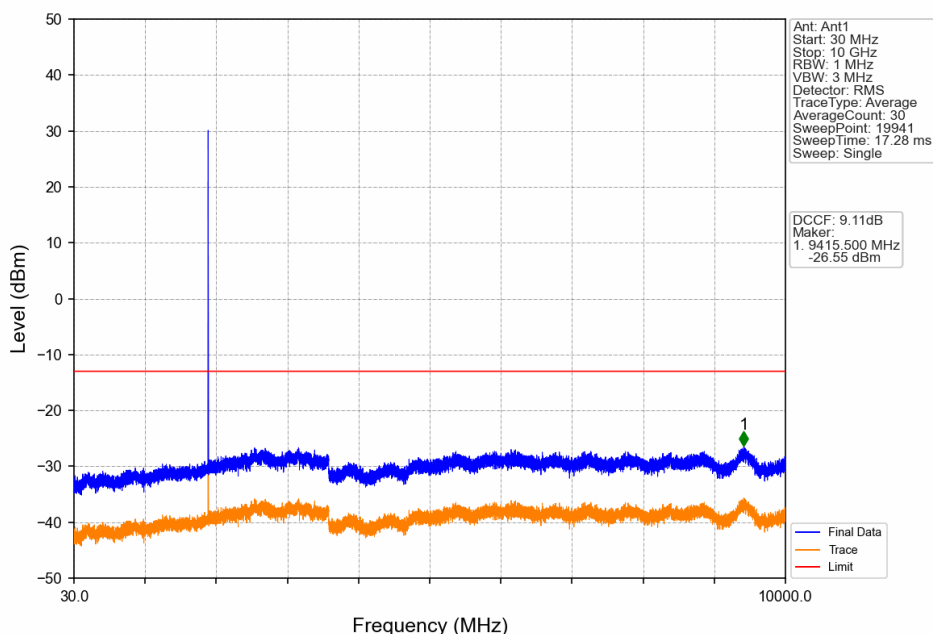


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PCS1900\_GSM\_HCH\_1909.8MHz\_GSM\_NTNV



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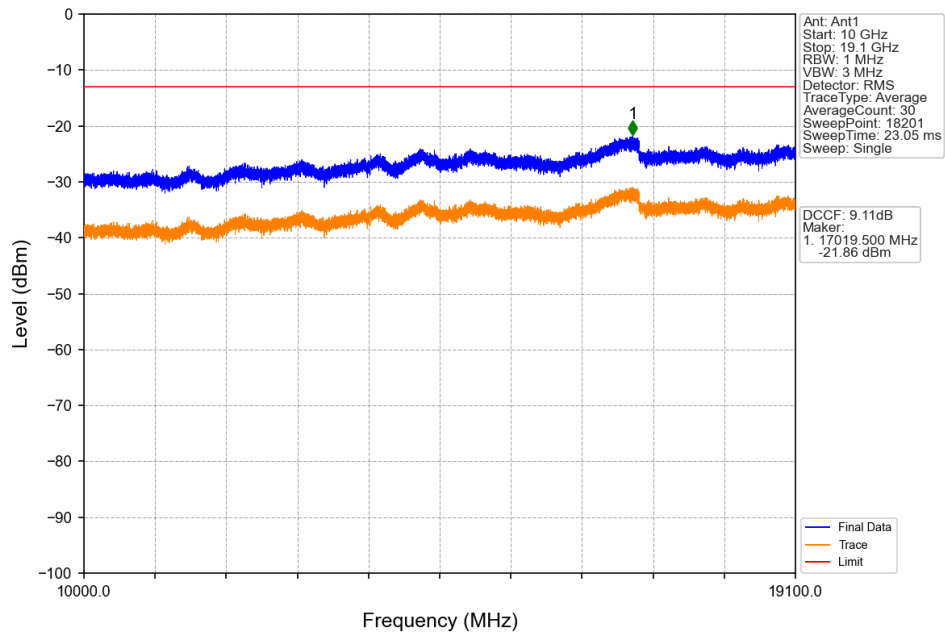


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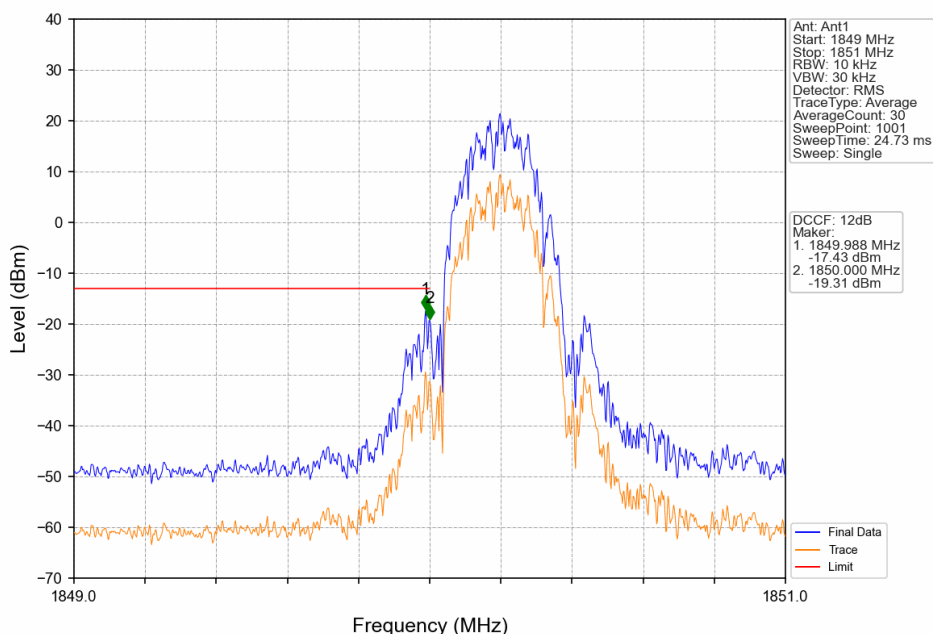


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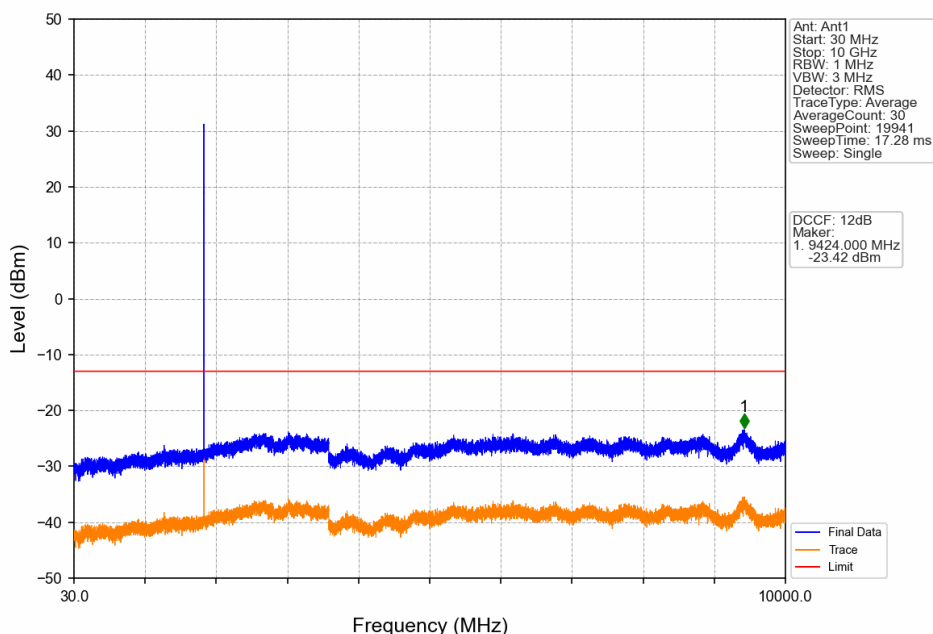


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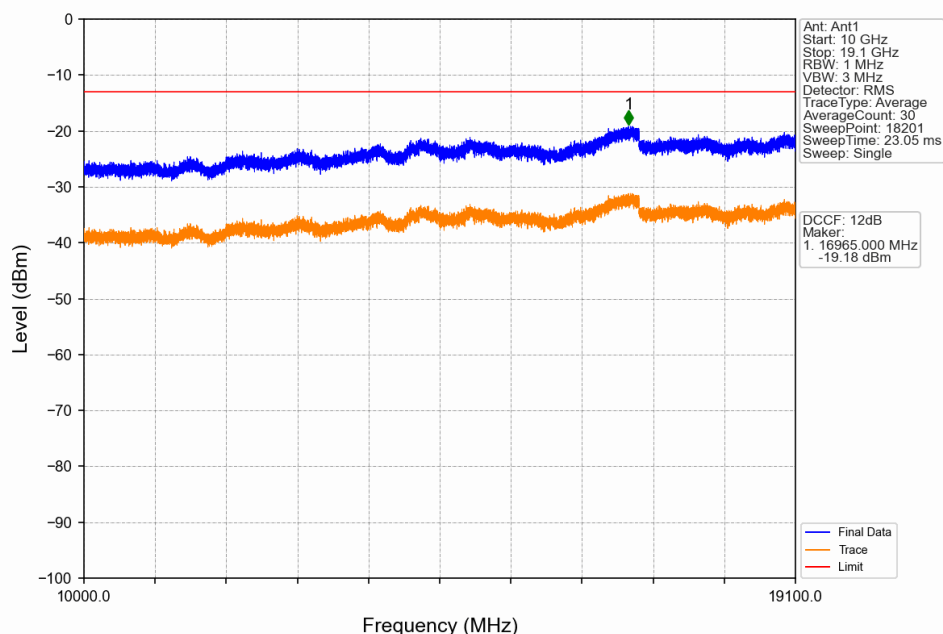


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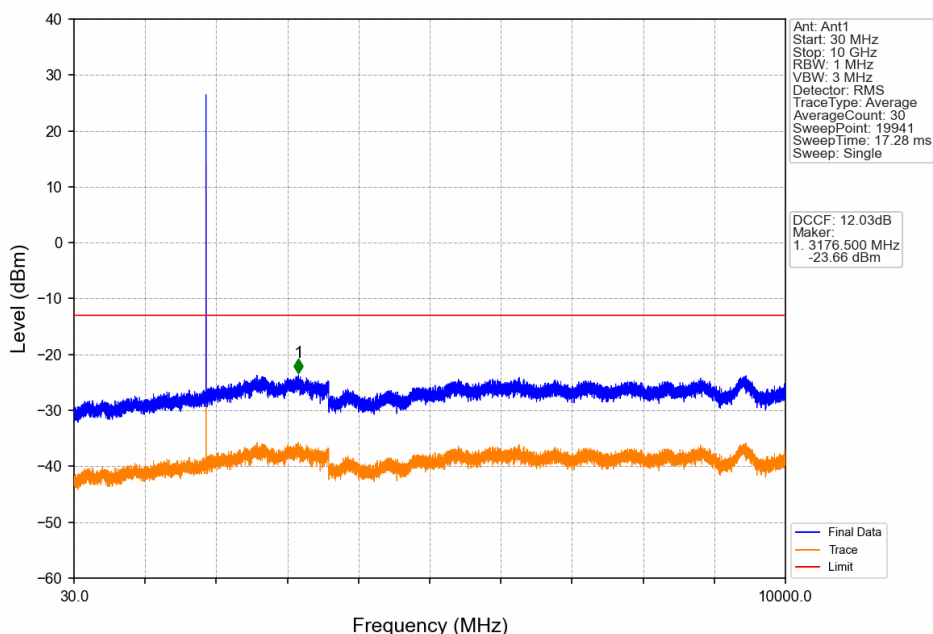
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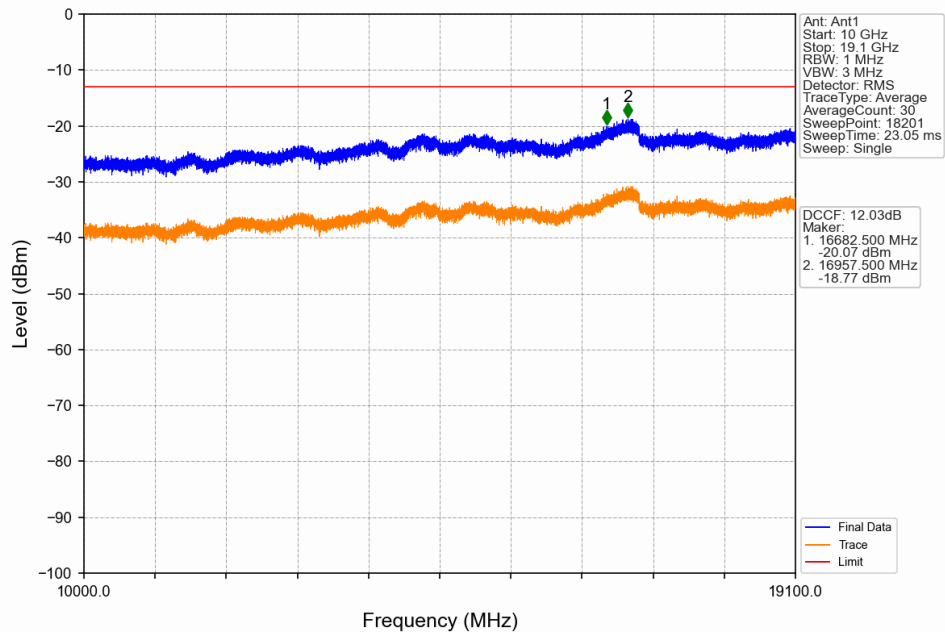
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PCS1900\_EGPRS\_MCH\_1880MHz\_1 TX Slot\_NTNV



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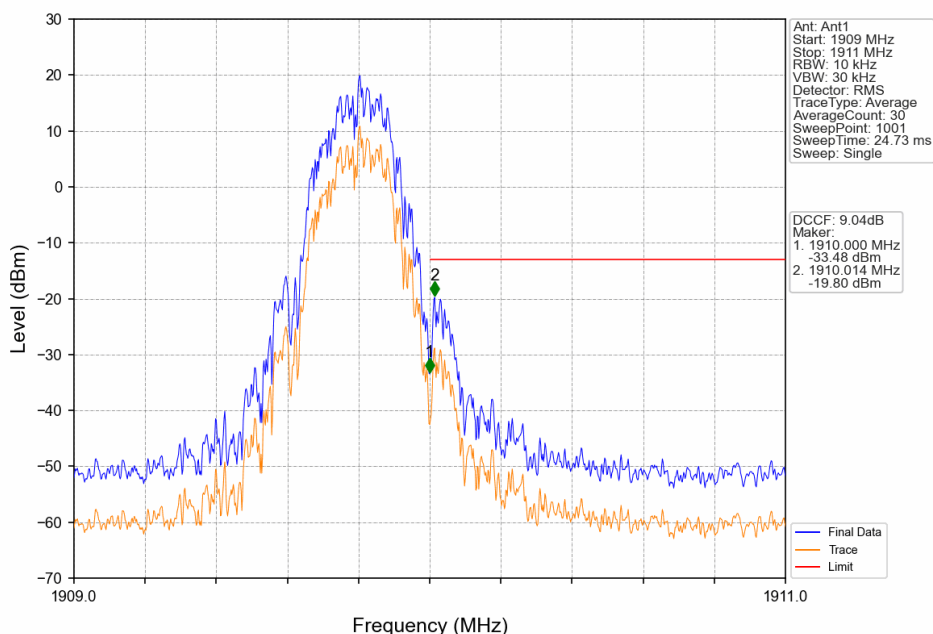
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## PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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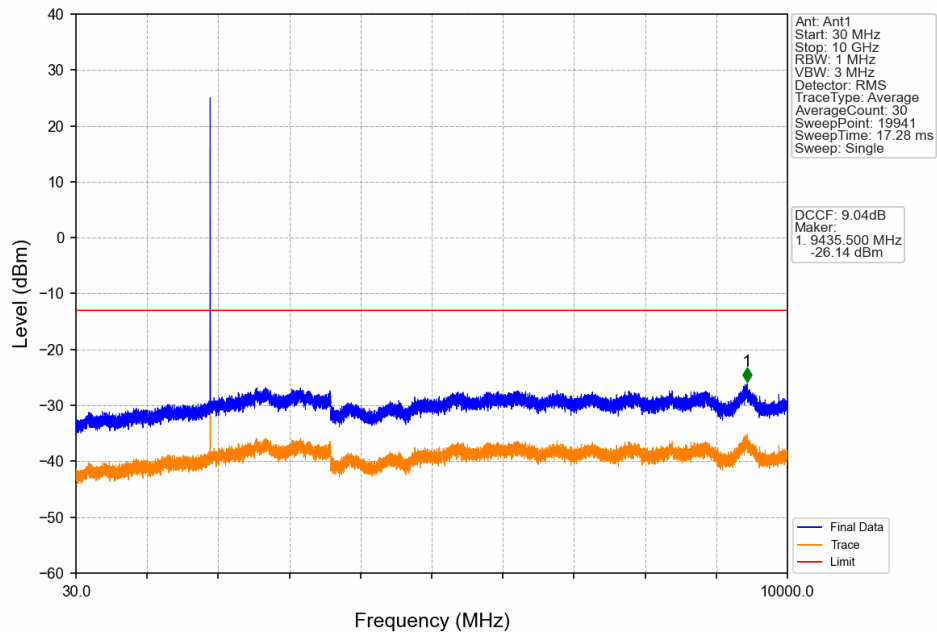


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PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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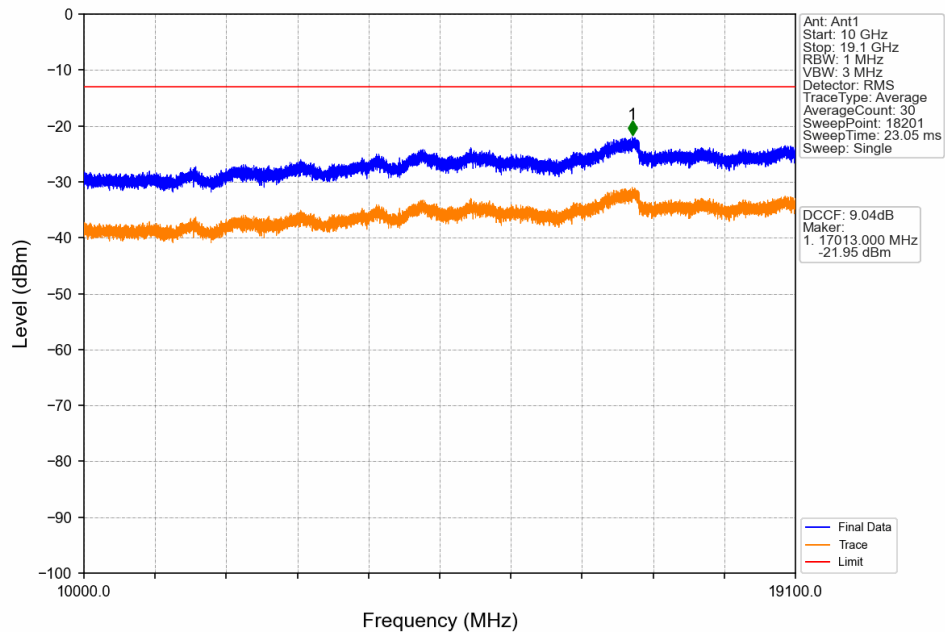


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PCS1900\_EGPRS\_HCH\_1909.8MHz\_1 TX Slot\_NTNV



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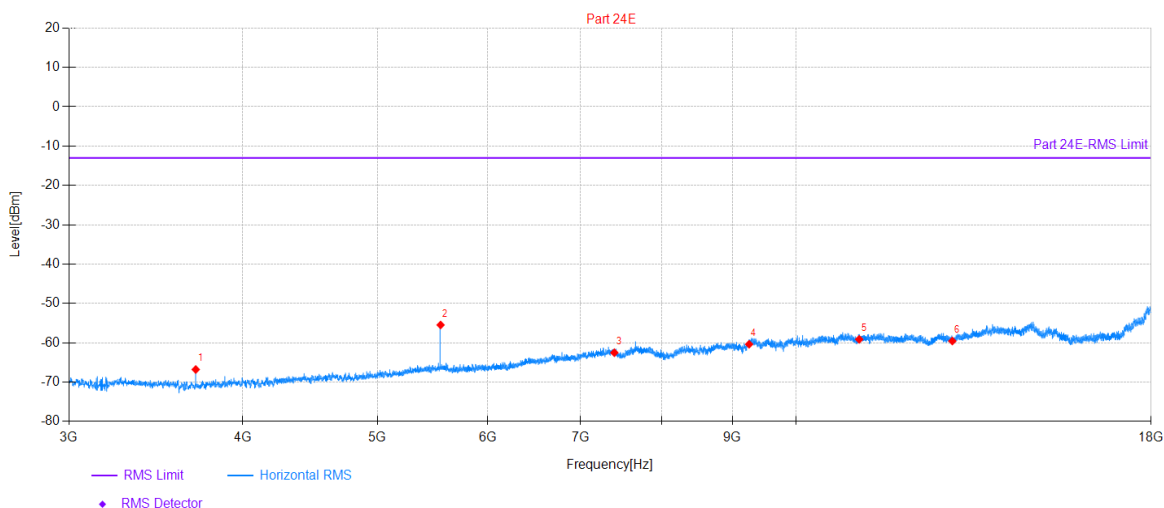
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## Field Strength of Spurious Radiation

**Test Band = GSM 1900\_****Test Channel = Low Channel**

### Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	48.00	-48.51	28.98	-66.79	-13.00	53.79	Horizontal
2	5550.6	54.74	-47.66	32.71	-55.47	-13.00	42.47	Horizontal
3	7400.8	42.36	-46.17	36.56	-62.51	-13.00	49.51	Horizontal
4	9251	40.27	-43.20	37.83	-60.37	-13.00	47.37	Horizontal
5	11101.2	37.12	-40.36	39.38	-59.12	-13.00	46.12	Horizontal
6	12951.4	36.50	-39.41	38.63	-59.54	-13.00	46.54	Horizontal



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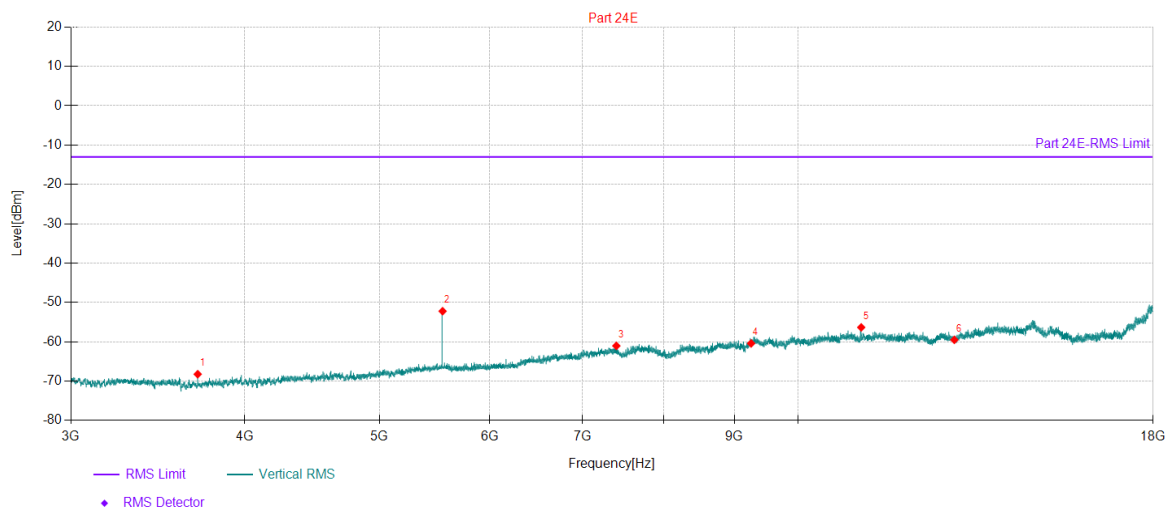


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Test Band = GSM 1900  
Test Channel = Low Channel



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	46.56	-48.51	28.98	-68.23	-13.00	55.23	Vertical
2	5550.6	57.99	-47.66	32.71	-52.22	-13.00	39.22	Vertical
3	7400.8	43.83	-46.17	36.56	-61.04	-13.00	48.04	Vertical
4	9251	40.22	-43.20	37.83	-60.42	-13.00	47.42	Vertical
5	11101.2	39.90	-40.36	39.38	-56.34	-13.00	43.34	Vertical
6	12951.4	36.54	-39.41	38.63	-59.50	-13.00	46.50	Vertical



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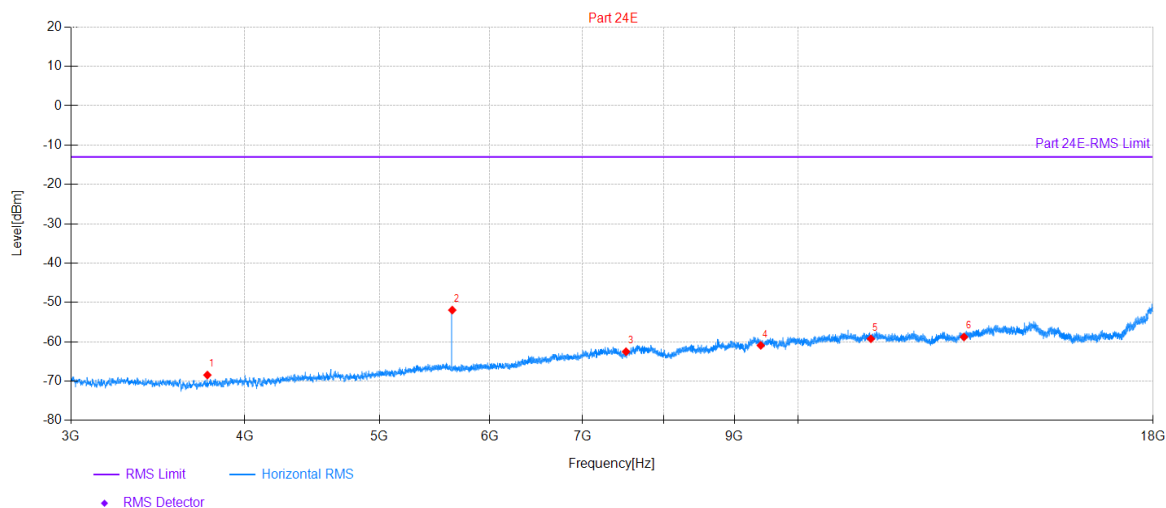


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Test Band = GSM 1900\_  
Test Channel = Mid Channel



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	46.06	-48.31	29.06	-68.45	-13.00	55.45	Horizontal
2	5640	58.21	-47.62	32.73	-51.94	-13.00	38.94	Horizontal
3	7520	41.82	-45.85	36.78	-62.51	-13.00	49.51	Horizontal
4	9400	39.43	-43.05	37.96	-60.92	-13.00	47.92	Horizontal
5	11280	37.11	-40.44	39.34	-59.24	-13.00	46.24	Horizontal
6	13160	36.09	-38.58	38.97	-58.78	-13.00	45.78	Horizontal



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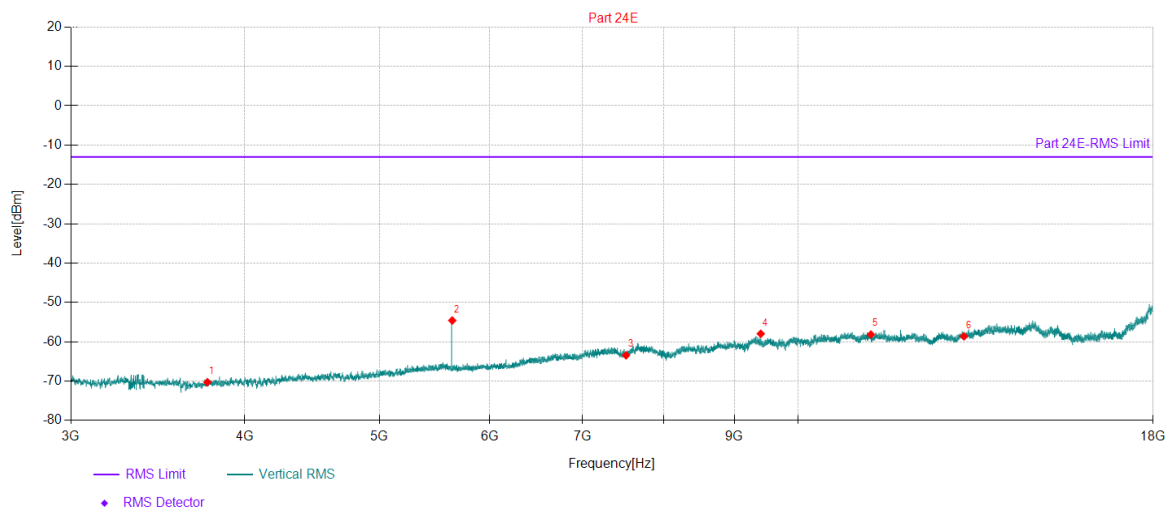


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Test Band = GSM 1900\_  
Test Channel = Mid Channel



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	44.24	-48.31	29.06	-70.27	-13.00	57.27	Vertical
2	5640	55.56	-47.62	32.73	-54.59	-13.00	41.59	Vertical
3	7520	40.89	-45.85	36.78	-63.44	-13.00	50.44	Vertical
4	9400	42.38	-43.05	37.96	-57.97	-13.00	44.97	Vertical
5	11280	38.19	-40.44	39.34	-58.16	-13.00	45.16	Vertical
6	13160	36.27	-38.58	38.97	-58.60	-13.00	45.60	Vertical



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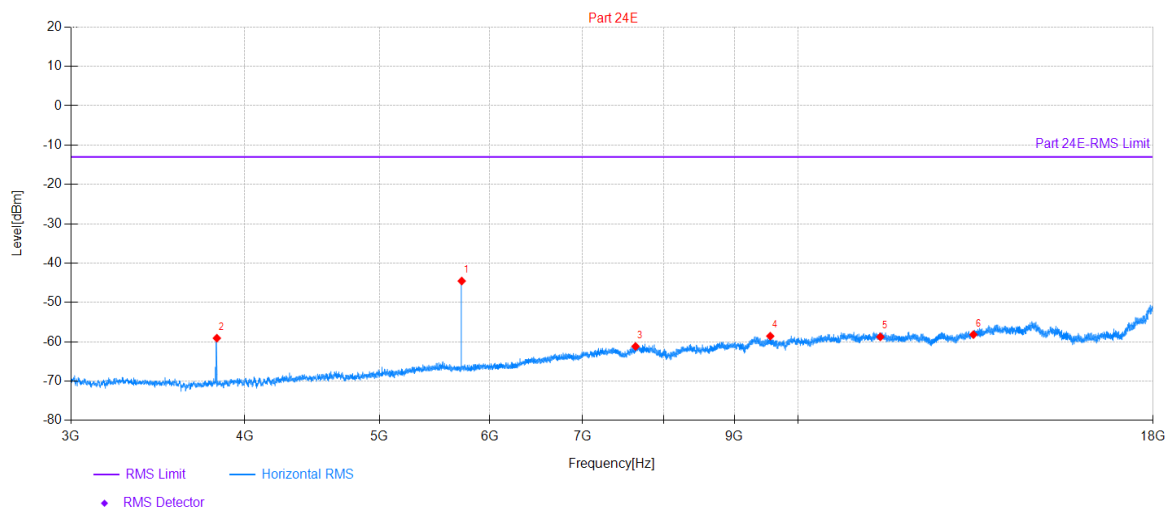


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Test Band = GSM 1900  
Test Channel = High Channel



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	65.50	-47.54	32.75	-44.55	-13.00	31.55	Horizontal
2	3819.6	55.23	-48.20	29.15	-59.08	-13.00	46.08	Horizontal
3	7639.2	42.27	-44.82	36.63	-61.18	-13.00	48.18	Horizontal
4	9549	40.91	-42.31	38.09	-58.56	-13.00	45.56	Horizontal
5	11458.8	37.27	-40.07	39.31	-58.75	-13.00	45.75	Horizontal
6	13368.6	36.79	-39.15	39.45	-58.17	-13.00	45.17	Horizontal



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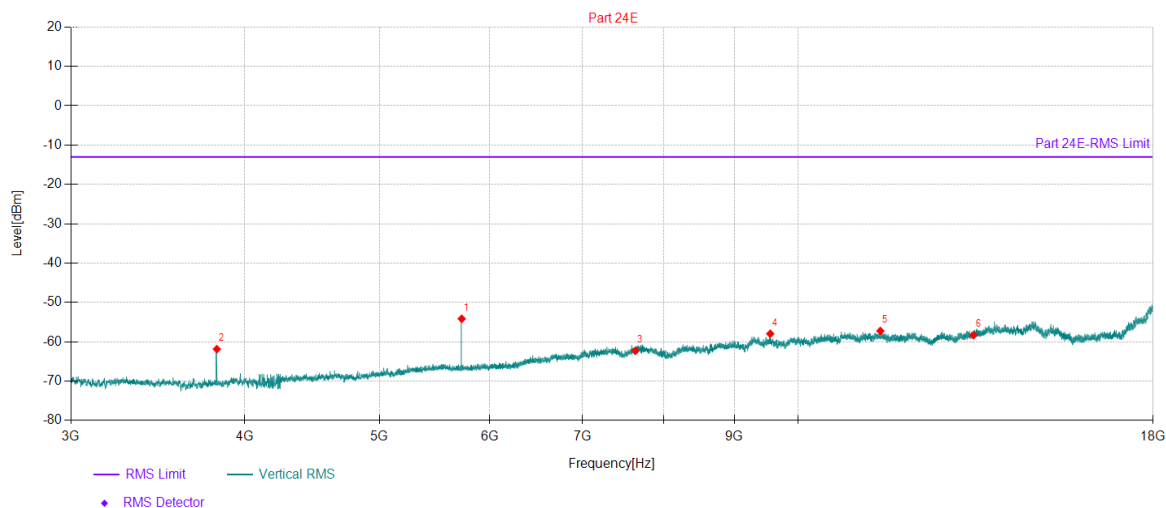


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Test Band = GSM 1900\_  
Test Channel = High Channel



## Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	55.89	-47.54	32.75	-54.16	-13.00	41.16	Vertical
2	3819.6	52.44	-48.20	29.15	-61.87	-13.00	48.87	Vertical
3	7639.2	41.19	-44.82	36.63	-62.26	-13.00	49.26	Vertical
4	9549	41.51	-42.31	38.09	-57.96	-13.00	44.96	Vertical
5	11458.8	38.78	-40.07	39.31	-57.24	-13.00	44.24	Vertical
6	13368.6	36.63	-39.15	39.45	-58.33	-13.00	45.33	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



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**Frequency Stability**  
**PCS1900****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	3.4	14.561	0.0079	/	Pass
			3.89	8.685	0.0047	/	Pass
			4.48	10.396	0.0056	/	Pass
		-30	3.89	10.687	0.0058	/	Pass
		-20	3.89	12.075	0.0065	/	Pass
		-10	3.89	13.366	0.0072	/	Pass
		0	3.89	12.462	0.0067	/	Pass
		10	3.89	14.819	0.0080	/	Pass
		30	3.89	10.622	0.0057	/	Pass
		40	3.89	12.882	0.0070	/	Pass
		50	3.89	15.207	0.0082	/	Pass
	1880	20	3.4	17.208	0.0092	/	Pass
			3.89	20.405	0.0109	/	Pass
			4.48	17.208	0.0092	/	Pass
		-30	3.89	18.920	0.0101	/	Pass
		-20	3.89	17.467	0.0093	/	Pass
		-10	3.89	17.241	0.0092	/	Pass
		0	3.89	15.982	0.0085	/	Pass
		10	3.89	45.943	0.0244	/	Pass
		30	3.89	19.275	0.0103	/	Pass
		40	3.89	19.275	0.0103	/	Pass
		50	3.89	21.567	0.0115	/	Pass
	1909.8	20	3.4	24.989	0.0131	/	Pass
			3.89	20.889	0.0109	/	Pass
			4.48	24.957	0.0131	/	Pass
		-30	3.89	22.729	0.0119	/	Pass
		-20	3.89	23.601	0.0124	/	Pass
		-10	3.89	20.954	0.0110	/	Pass
		0	3.89	21.341	0.0112	/	Pass
		10	3.89	23.698	0.0124	/	Pass
		30	3.89	24.505	0.0128	/	Pass
		40	3.89	22.084	0.0116	/	Pass
		50	3.89	25.248	0.0132	/	Pass
EGPRS	1850.2	20	3.4	28.412	0.0154	/	Pass
			3.89	30.898	0.0167	/	Pass
			4.48	30.510	0.0165	/	Pass
		-30	3.89	30.833	0.0167	/	Pass
		-20	3.89	30.220	0.0163	/	Pass
		-10	3.89	29.735	0.0161	/	Pass
		0	3.89	29.671	0.0160	/	Pass



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		10	3.89	28.315	0.0153	/	Pass
		30	3.89	29.961	0.0162	/	Pass
		40	3.89	28.928	0.0156	/	Pass
		50	3.89	28.993	0.0157	/	Pass
	1880	20	3.4	31.834	0.0169	/	Pass
			3.89	33.642	0.0179	/	Pass
			4.48	29.283	0.0156	/	Pass
		-30	3.89	31.124	0.0166	/	Pass
		-20	3.89	30.155	0.0160	/	Pass
		-10	3.89	30.768	0.0164	/	Pass
		0	3.89	28.605	0.0152	/	Pass
		10	3.89	30.672	0.0163	/	Pass
		30	3.89	31.414	0.0167	/	Pass
		40	3.89	30.413	0.0162	/	Pass
		50	3.89	28.379	0.0151	/	Pass
	1909.8	20	3.4	31.608	0.0166	/	Pass
			3.89	30.090	0.0158	/	Pass
			4.48	29.316	0.0154	/	Pass
		-30	3.89	30.704	0.0161	/	Pass
		-20	3.89	27.508	0.0144	/	Pass
		-10	3.89	30.123	0.0158	/	Pass
		0	3.89	29.542	0.0155	/	Pass
		10	3.89	30.349	0.0159	/	Pass
		30	3.89	30.155	0.0158	/	Pass
		40	3.89	30.187	0.0158	/	Pass
		50	3.89	29.090	0.0152	/	Pass

---End of Attachment---



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