



Report No.: SEWM2311000475RG01

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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	27.58	0.90	28.48	<=33.00	Pass
			1880	27.56	0.90	28.46	<=33.00	Pass
			1909.8	27.76	0.90	28.66	<=33.00	Pass
	EGPRS	1 TX Slot	1850.2	22.80	0.90	23.7	<=33.00	Pass
		2 TX Slots	1850.2	22.31	0.90	23.21	<=33.00	Pass
		3 TX Slots	1850.2	20.34	0.90	21.24	<=33.00	Pass
		4 TX Slots	1850.2	19.97	0.90	20.87	<=33.00	Pass
		1 TX Slot	1880	22.67	0.90	23.57	<=33.00	Pass
		2 TX Slots	1880	22.29	0.90	23.19	<=33.00	Pass
		3 TX Slots	1880	20.47	0.90	21.37	<=33.00	Pass
		4 TX Slots	1880	19.88	0.90	20.78	<=33.00	Pass
		1 TX Slot	1909.8	22.73	0.90	23.63	<=33.00	Pass
		2 TX Slots	1909.8	22.23	0.90	23.13	<=33.00	Pass
		3 TX Slots	1909.8	20.37	0.90	21.27	<=33.00	Pass
		4 TX Slots	1909.8	19.88	0.90	20.78	<=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	10.09	<=13	Pass
			1880	10.32	<=13	Pass
			1909.8	10.09	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.29	<=13	Pass
			1880	7.86	<=13	Pass
			1909.8	7.02	<=13	Pass



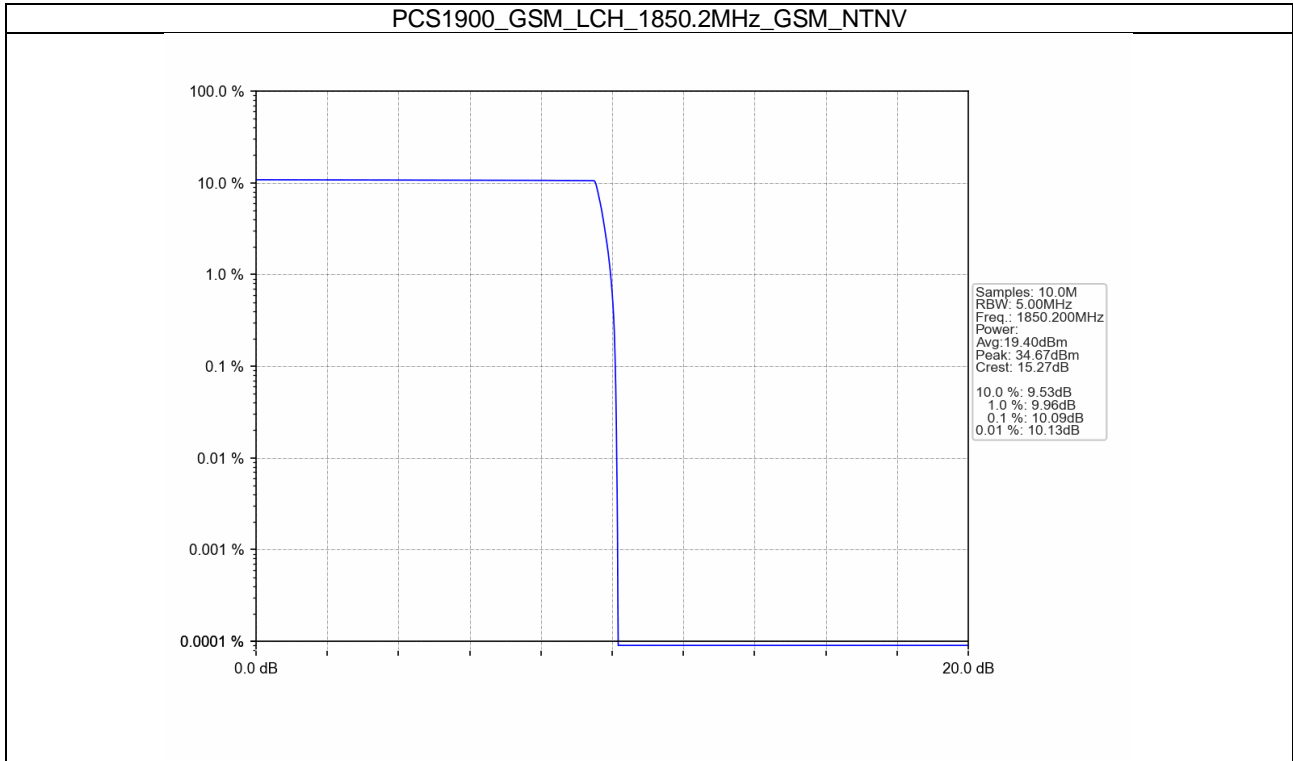
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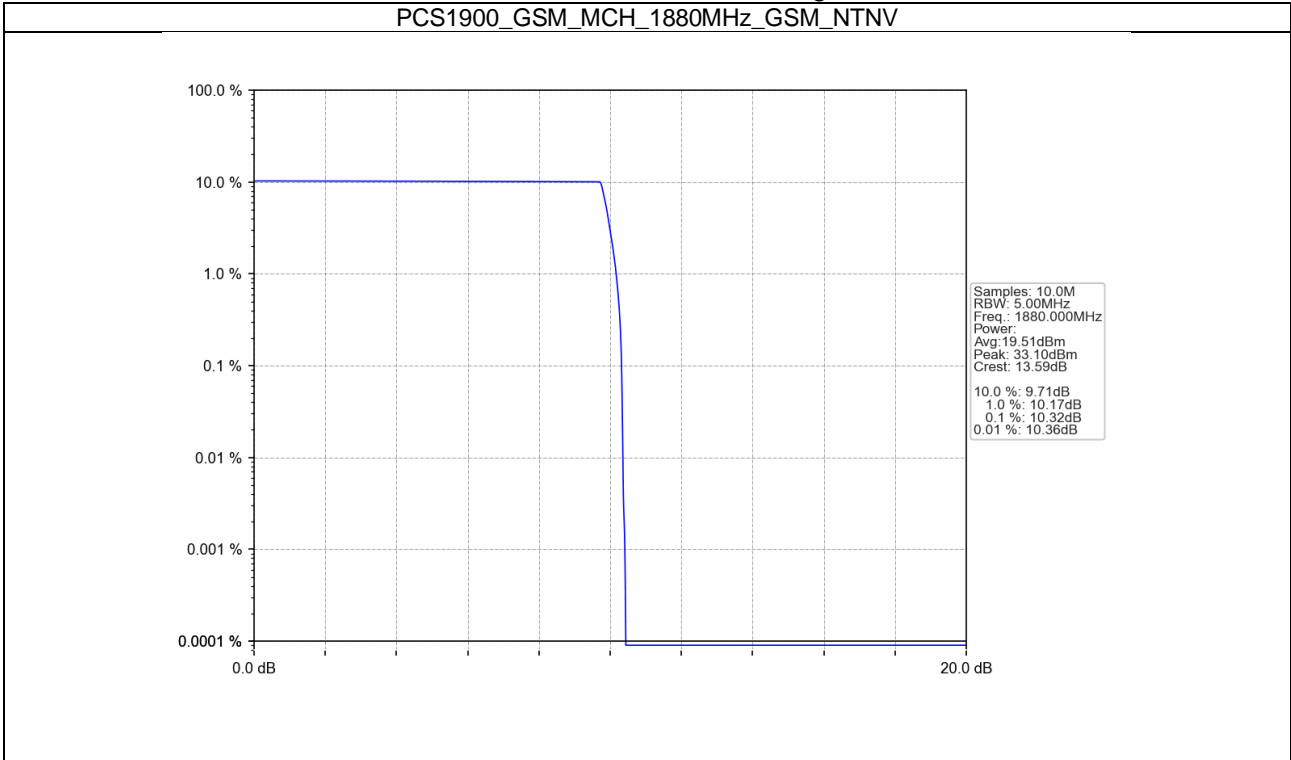
Test Graph



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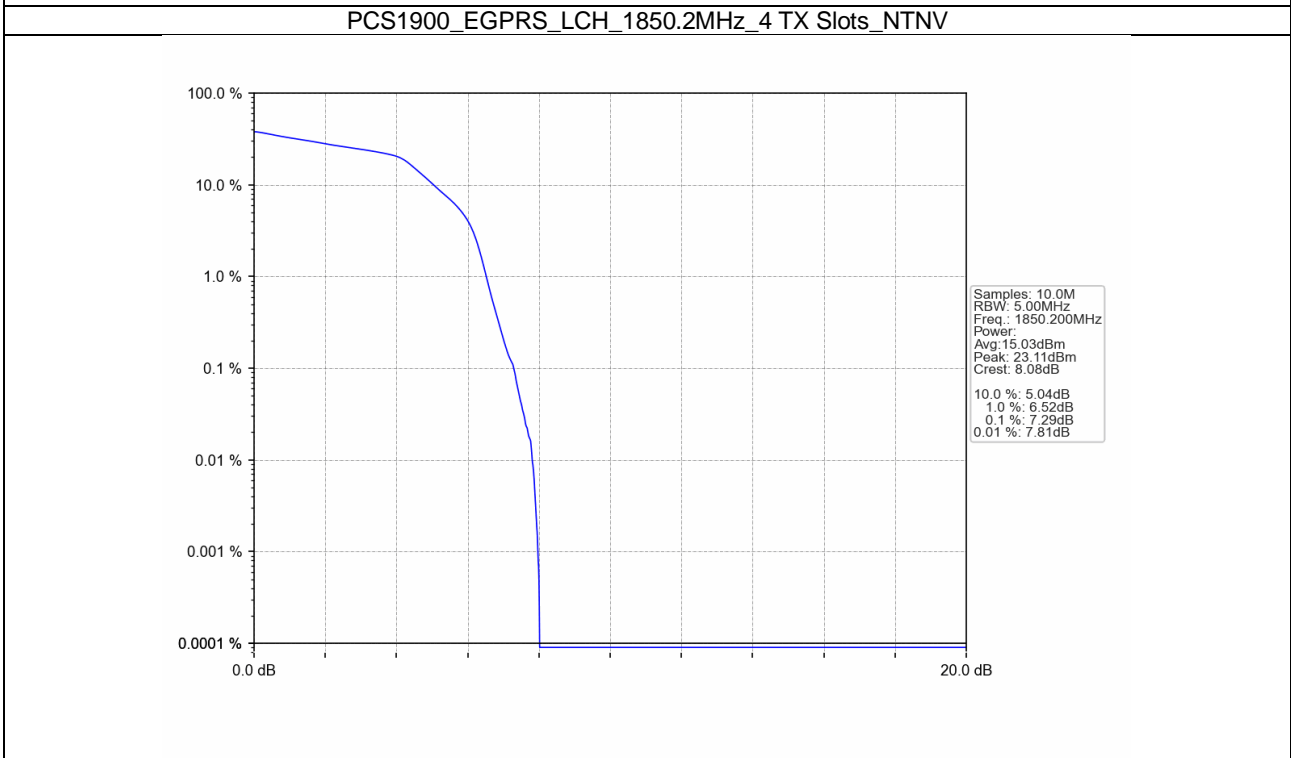
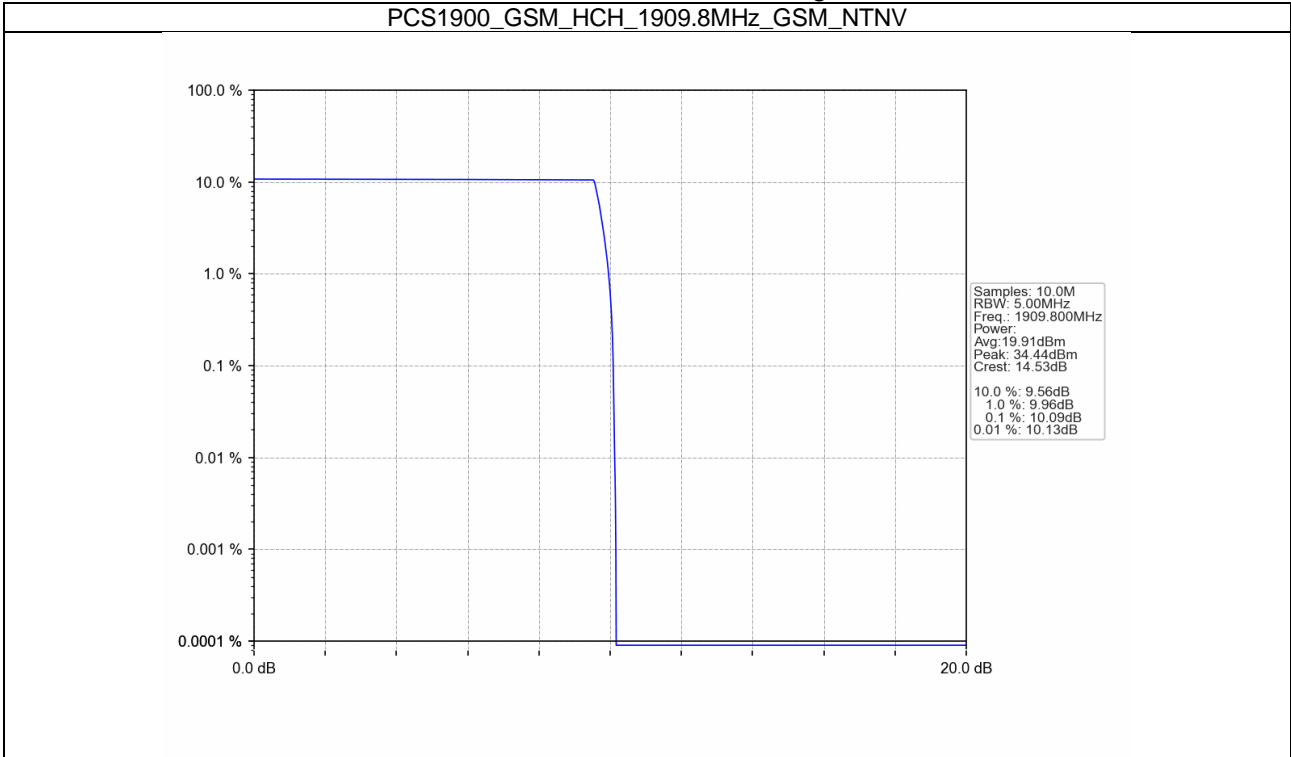
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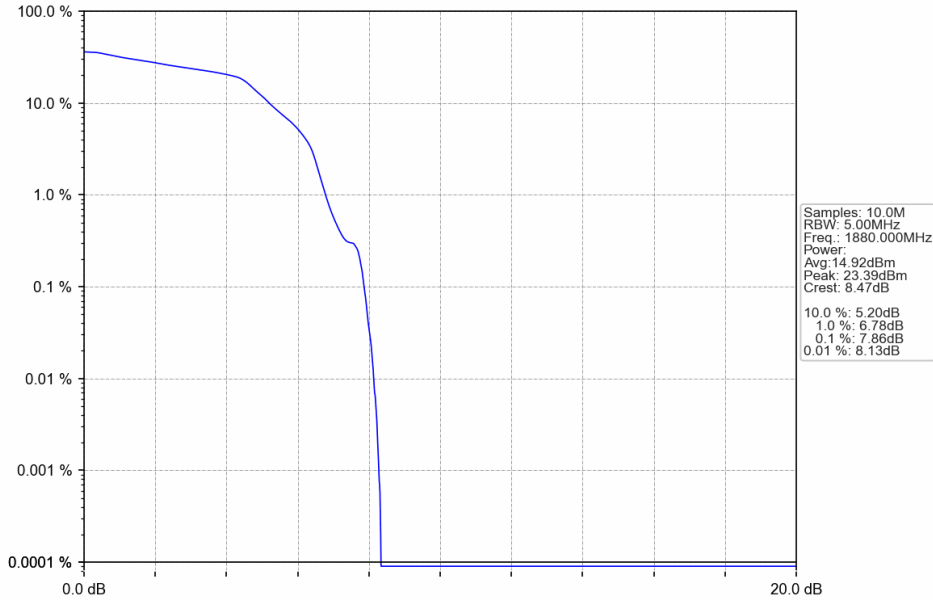


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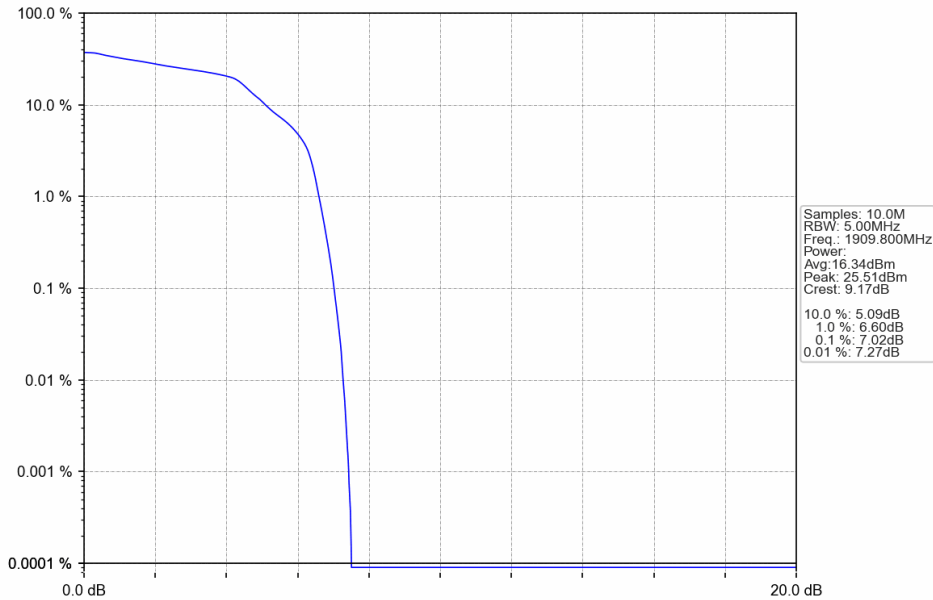
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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



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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	0.250	/	Pass
			1909.8	0.242	/	Pass
	EGPRS	1 TX Slot	1850.2	0.242	/	Pass
			1880	0.239	/	Pass
			1909.8	0.241	/	Pass

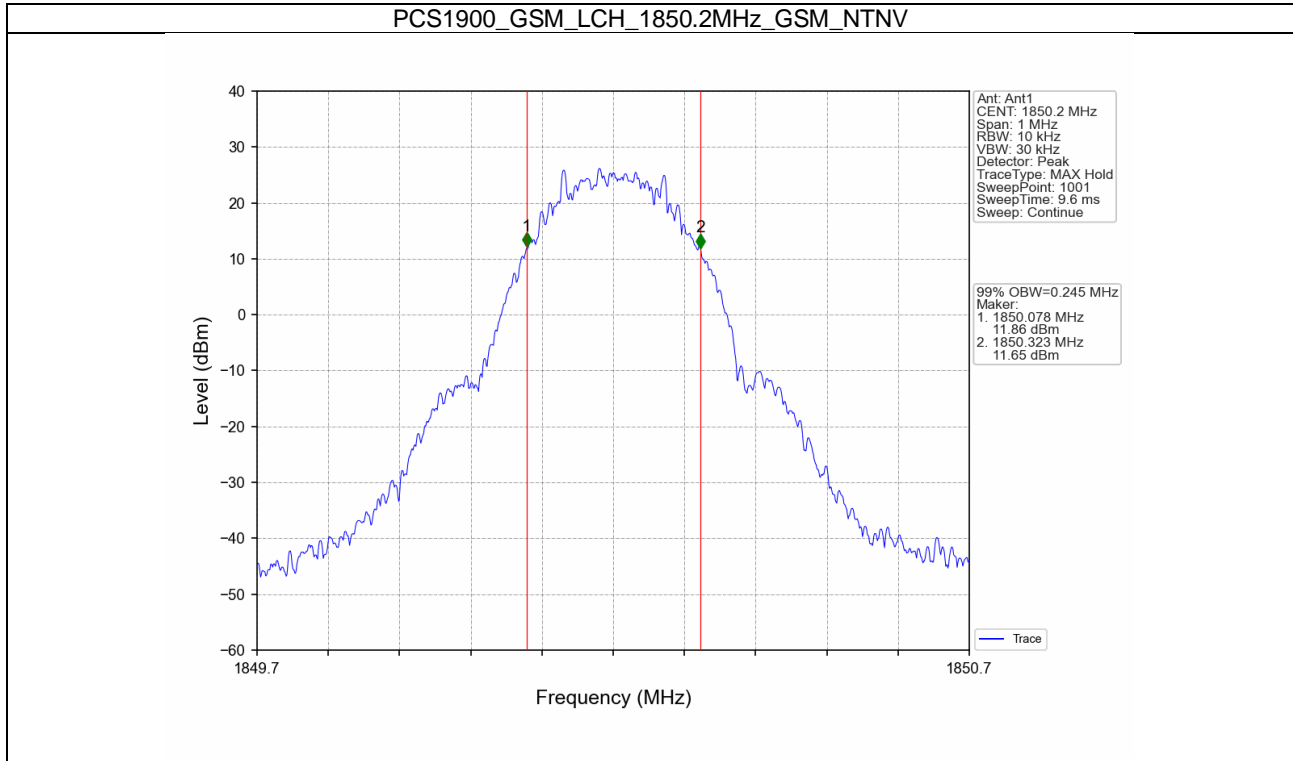


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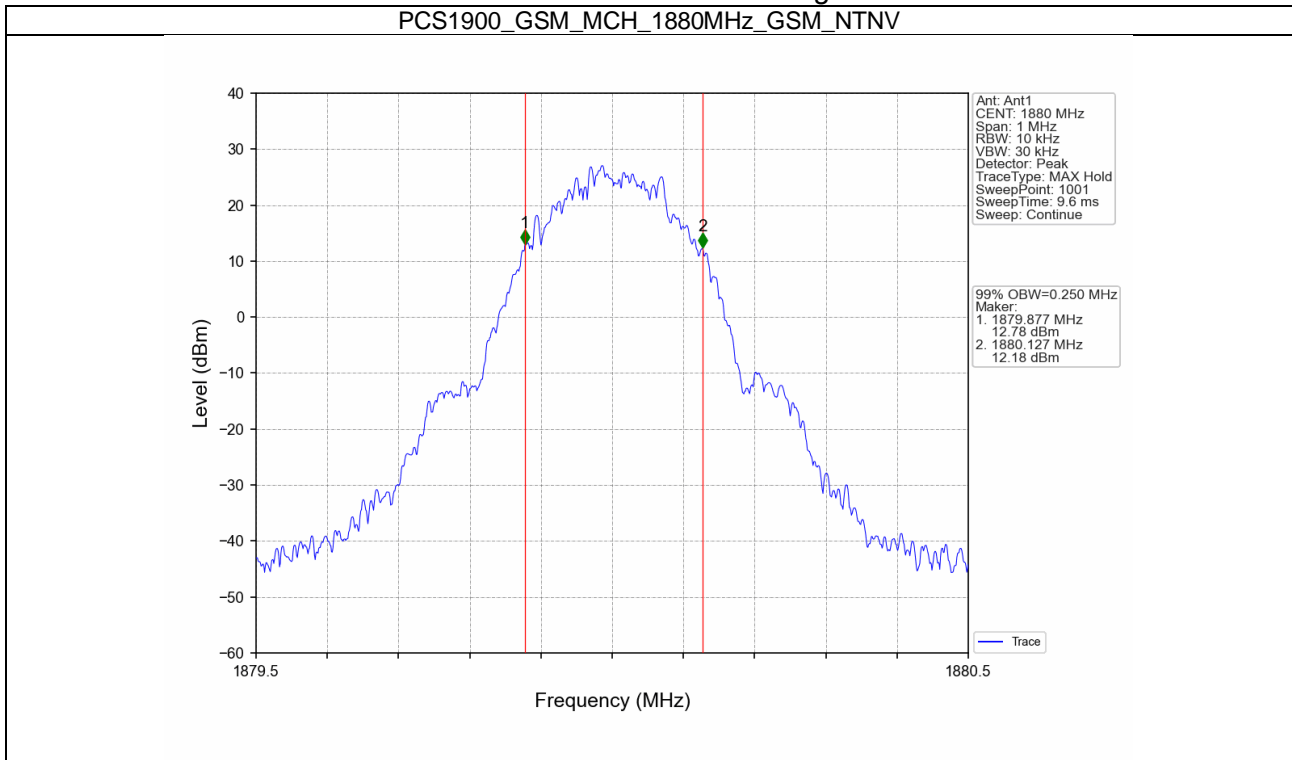
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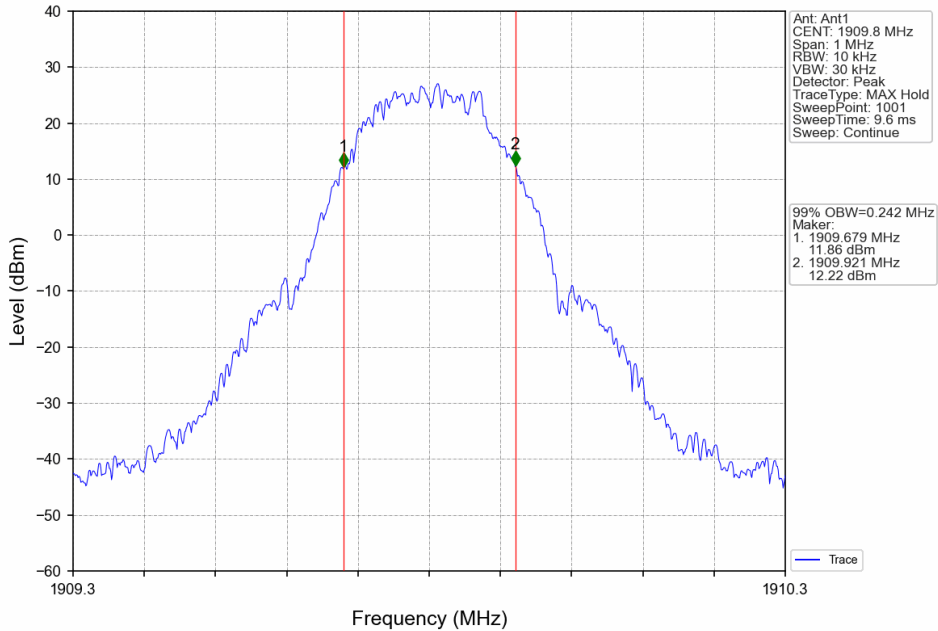


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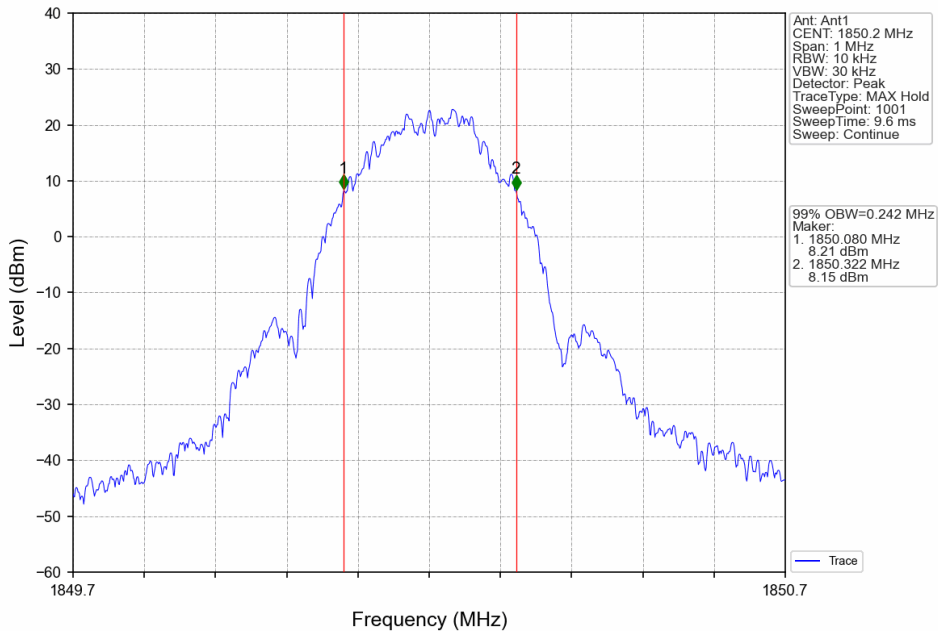
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PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV

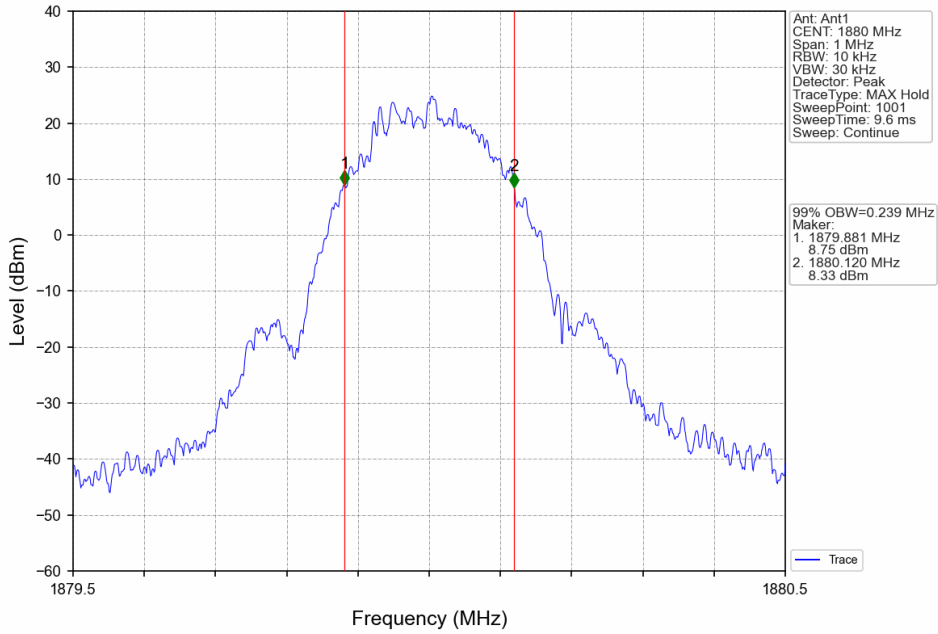


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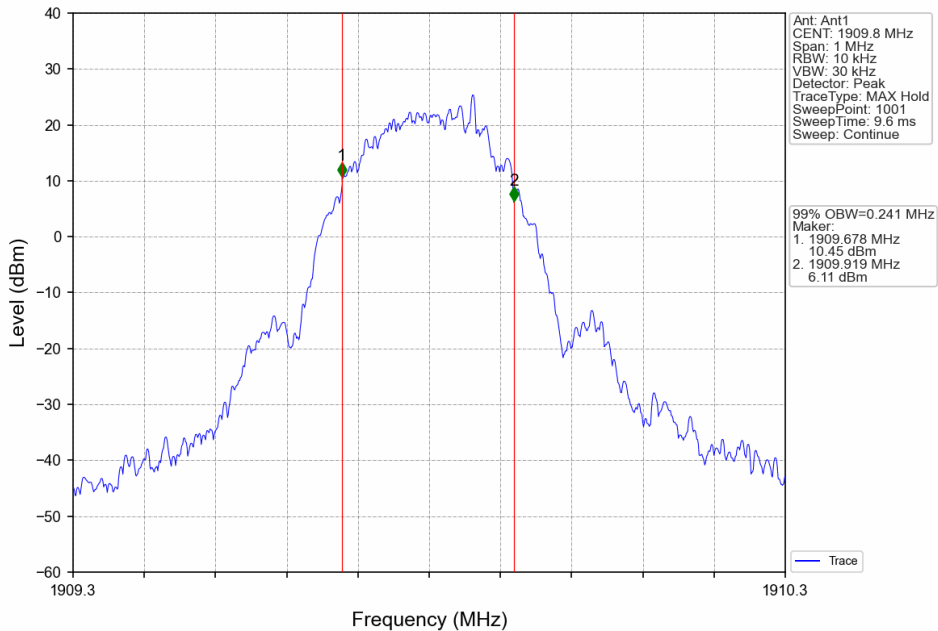
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



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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	0.316	/	Pass
			1880	0.315	/	Pass
			1909.8	0.318	/	Pass
	EGPRS	1 TX Slot	1850.2	0.311	/	Pass
			1880	0.307	/	Pass
			1909.8	0.309	/	Pass

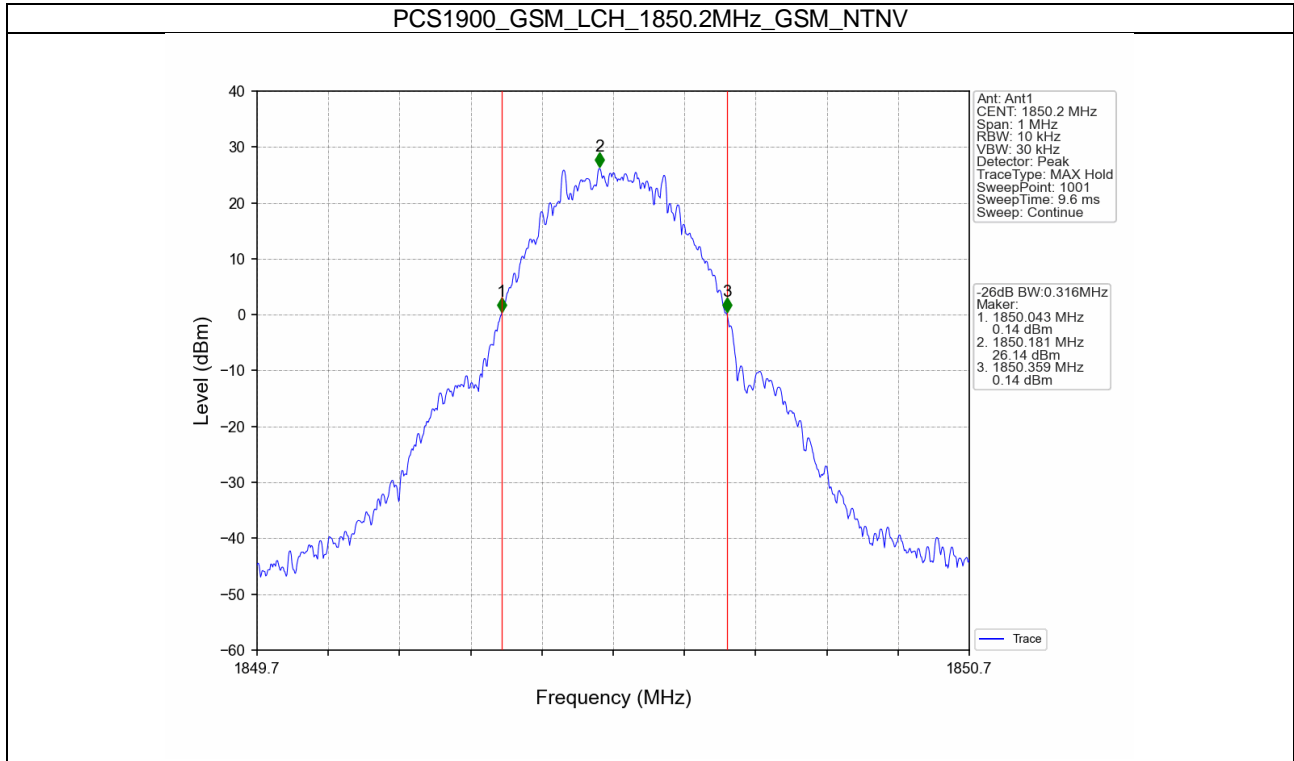


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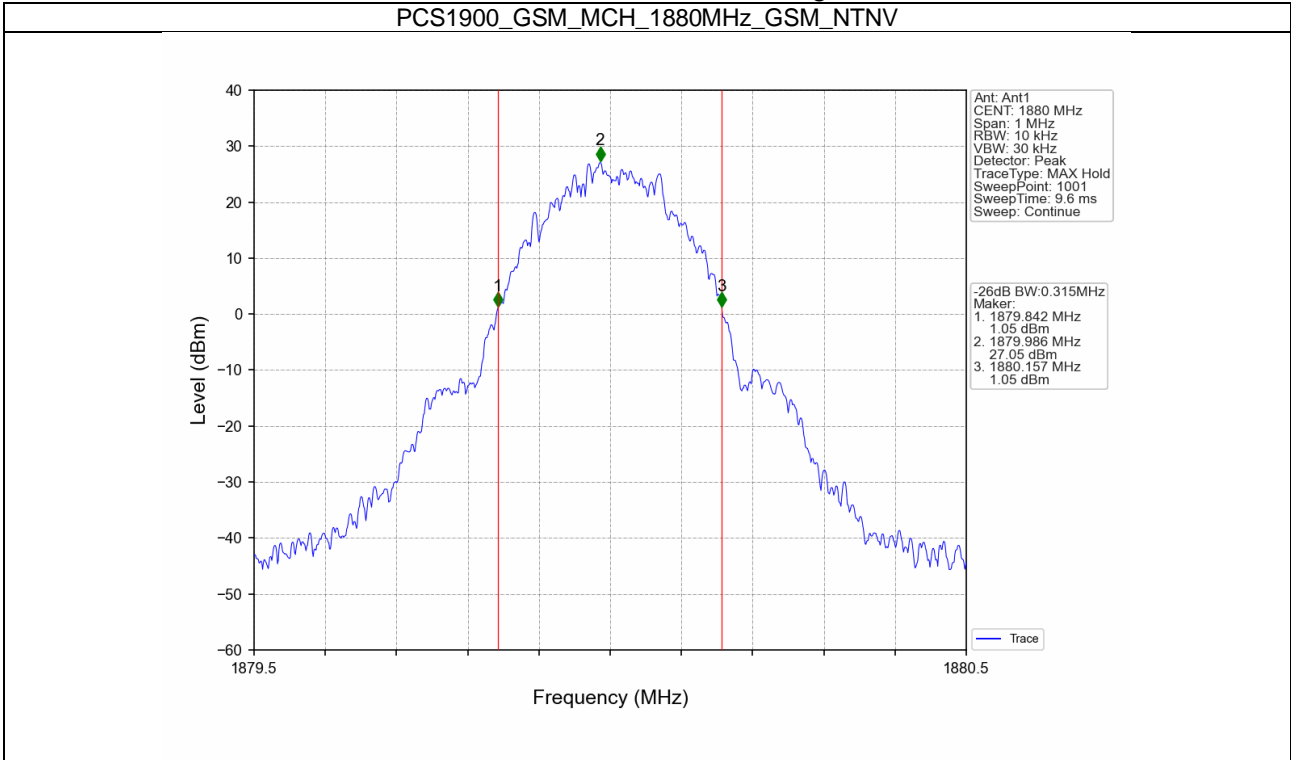
Test Graph



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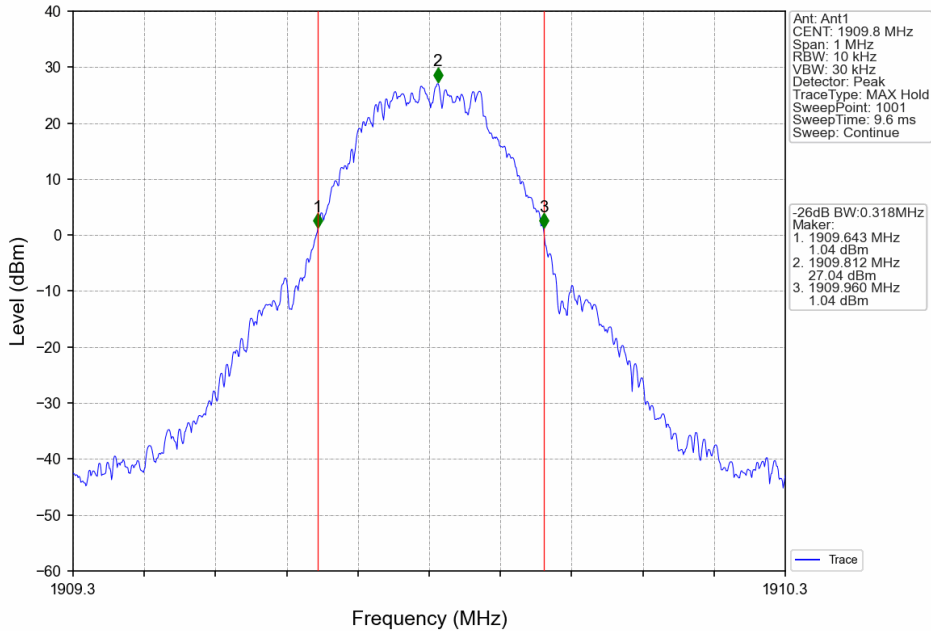


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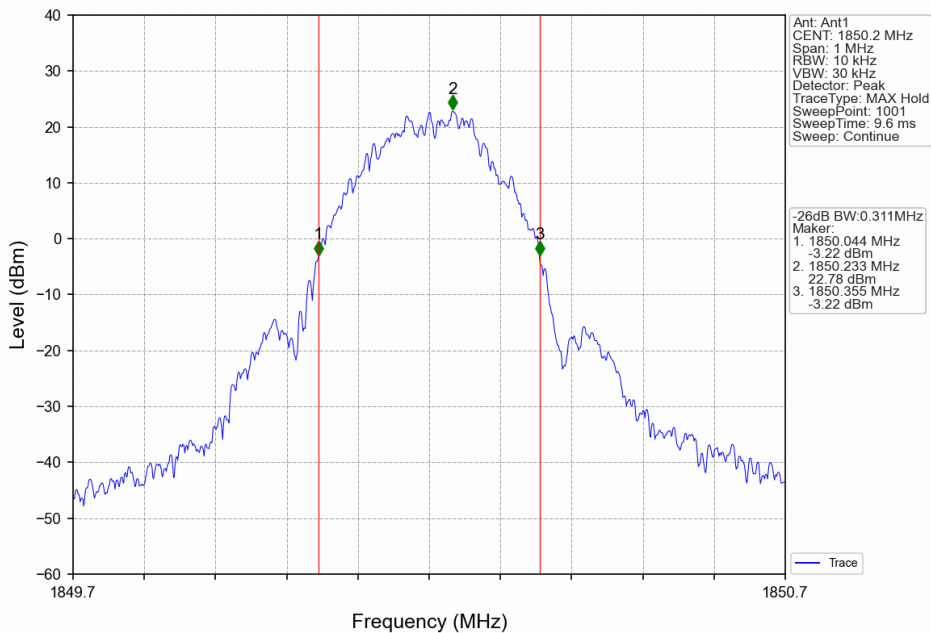
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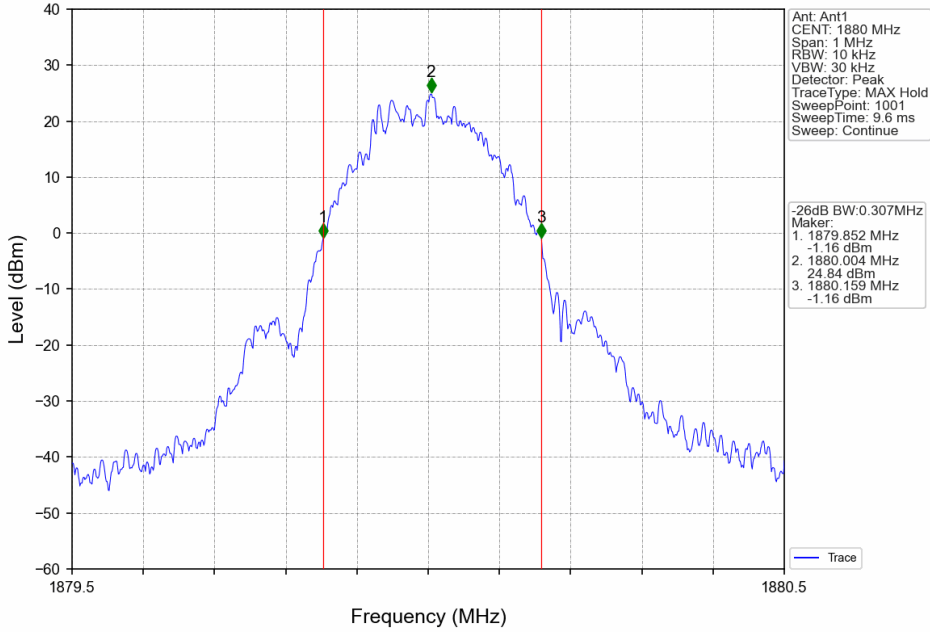


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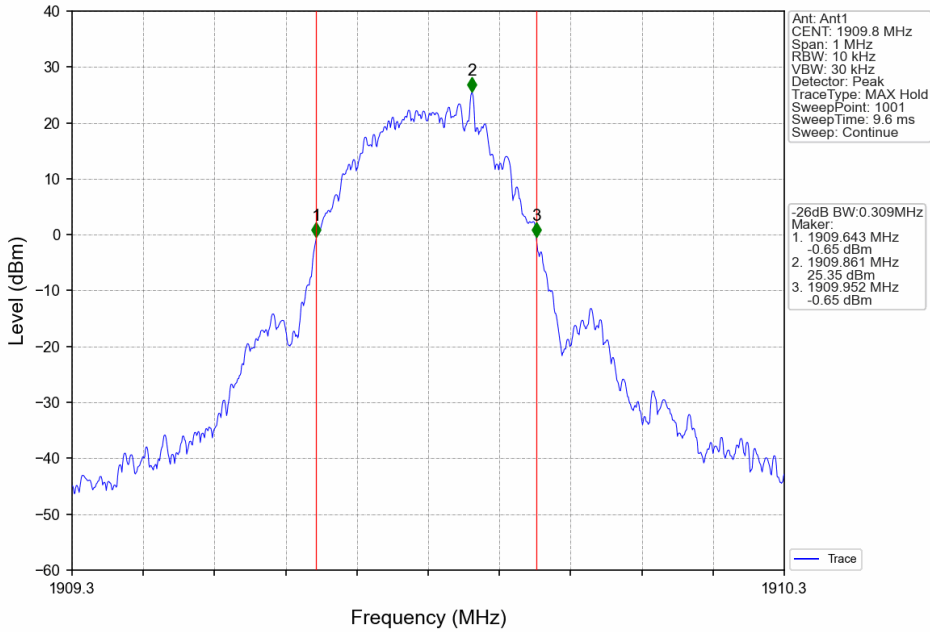
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Report No.: SEWM2311000475RG01

Rev.: 01

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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	



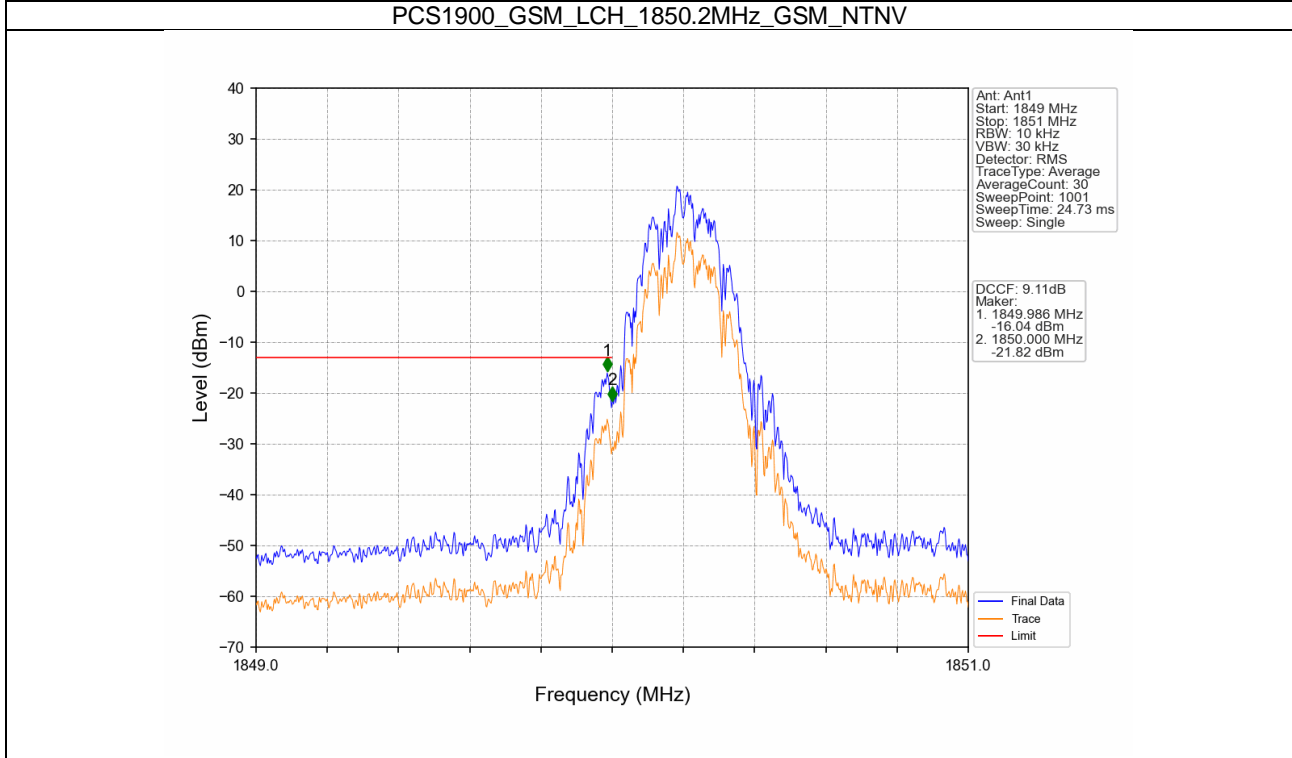
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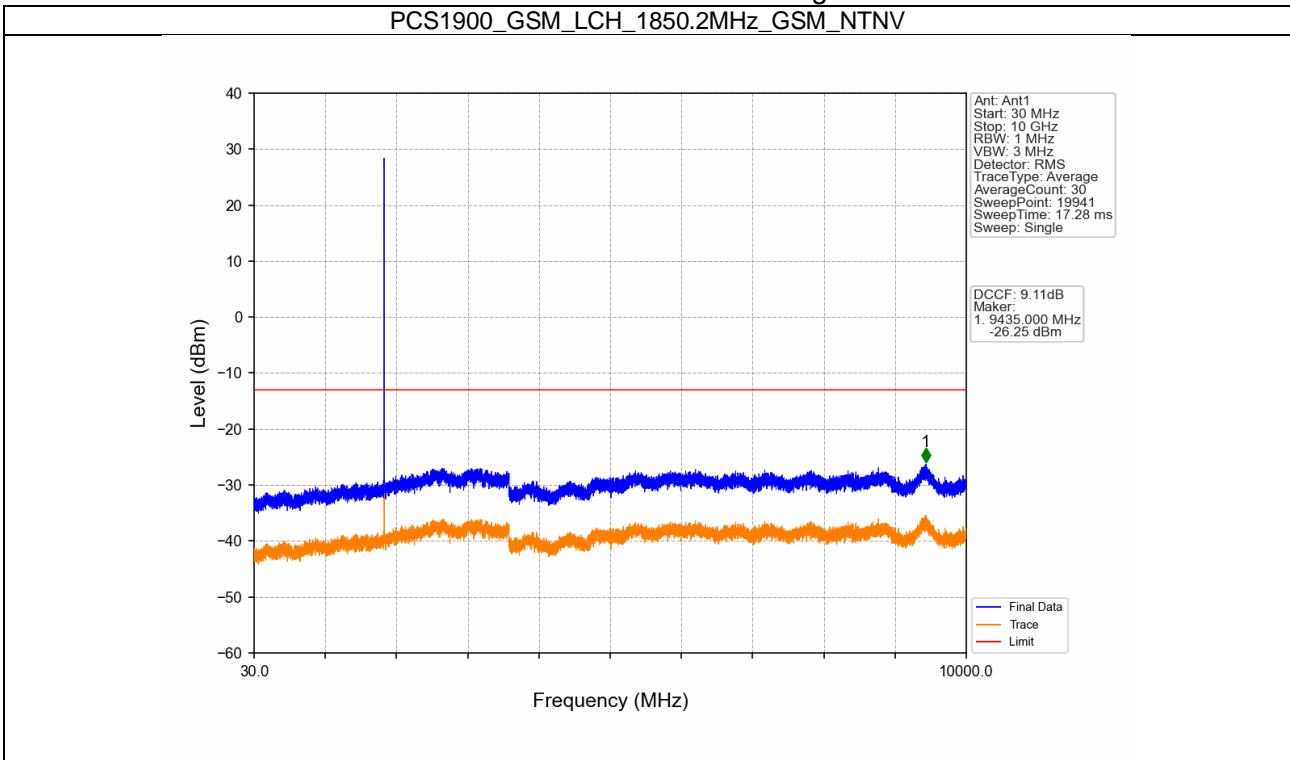
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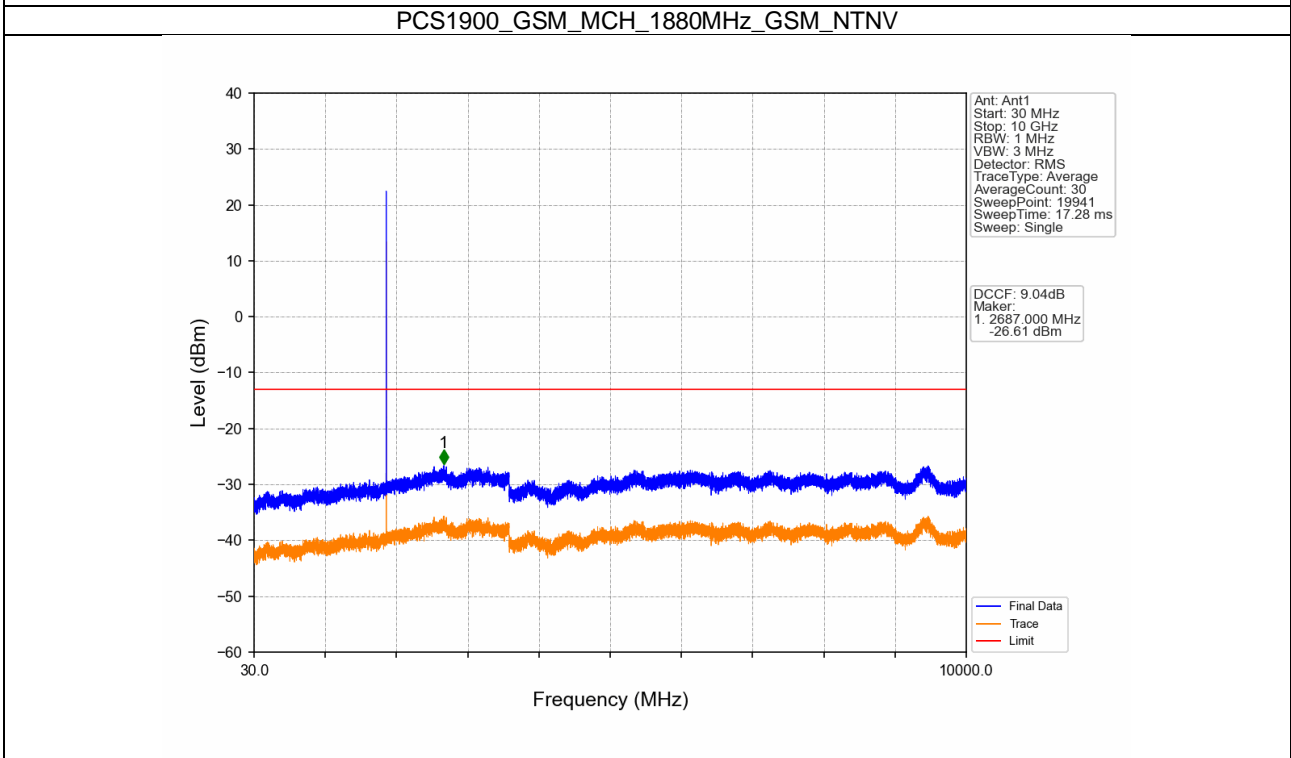
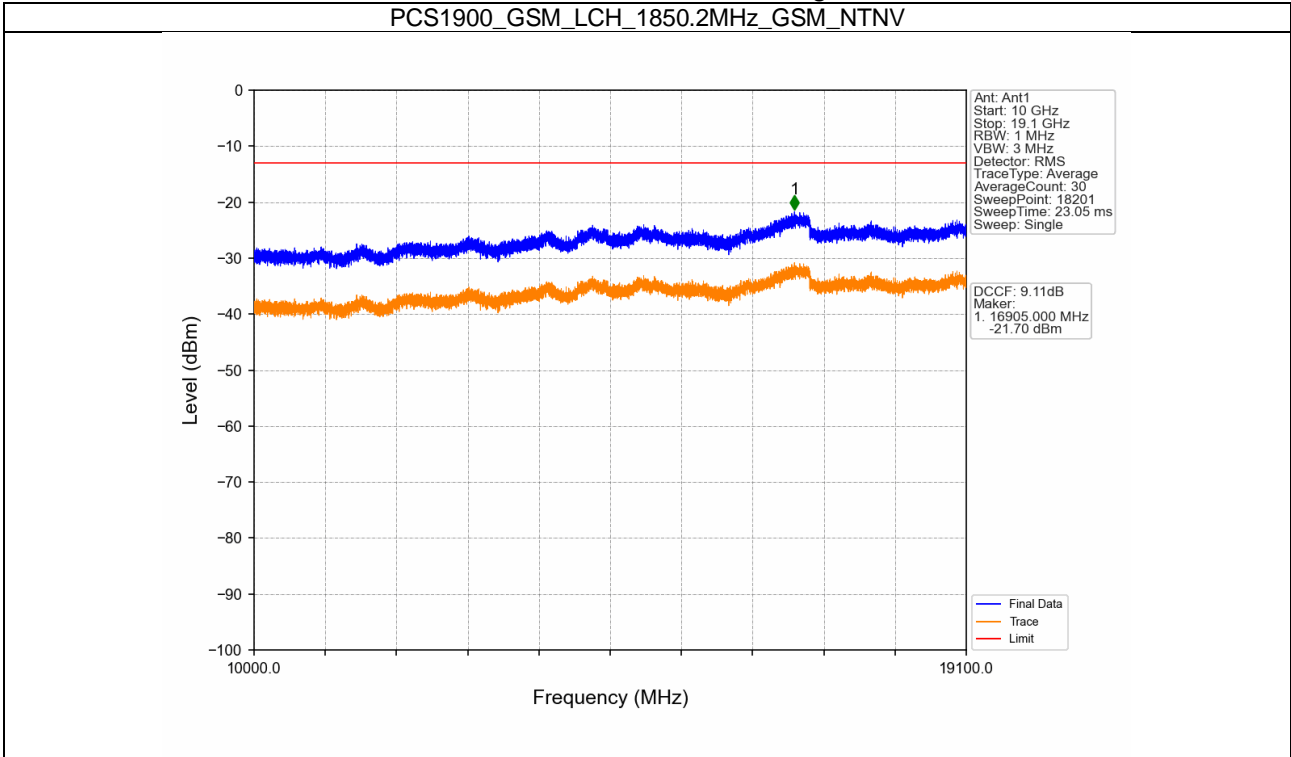
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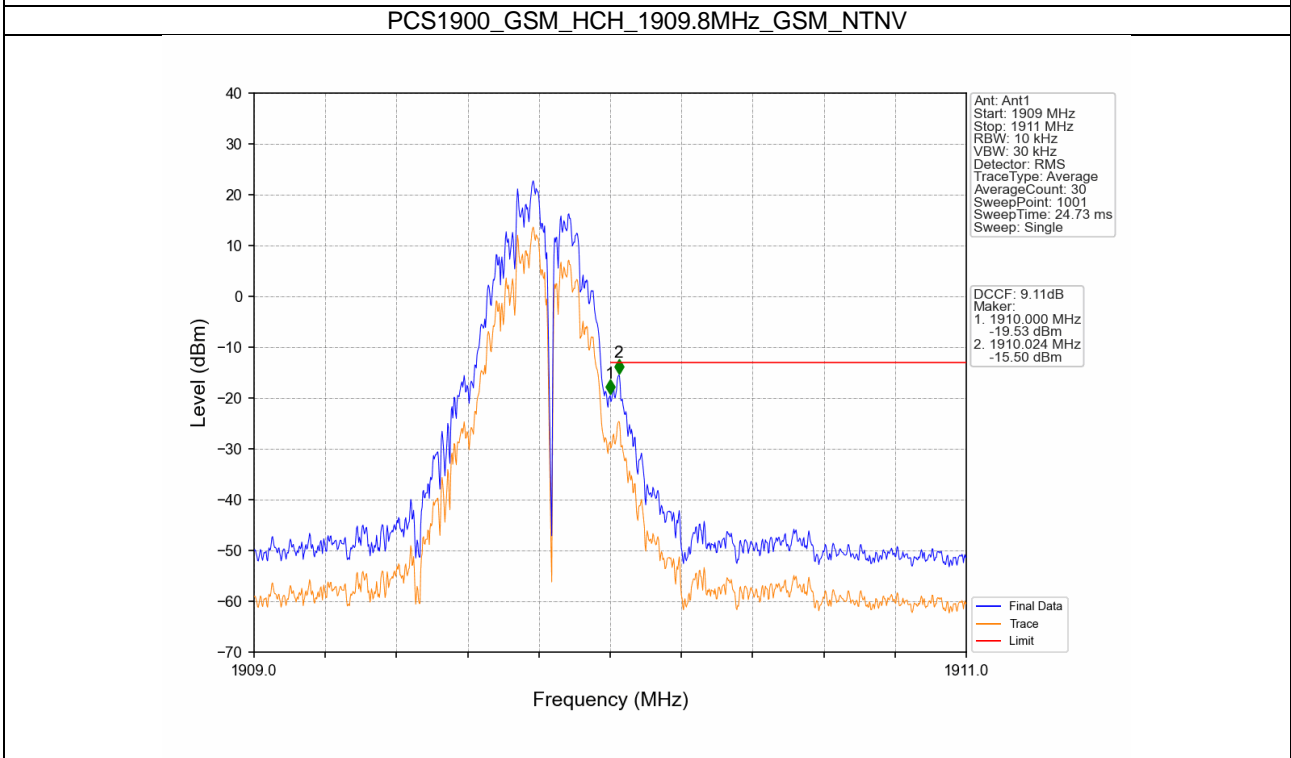
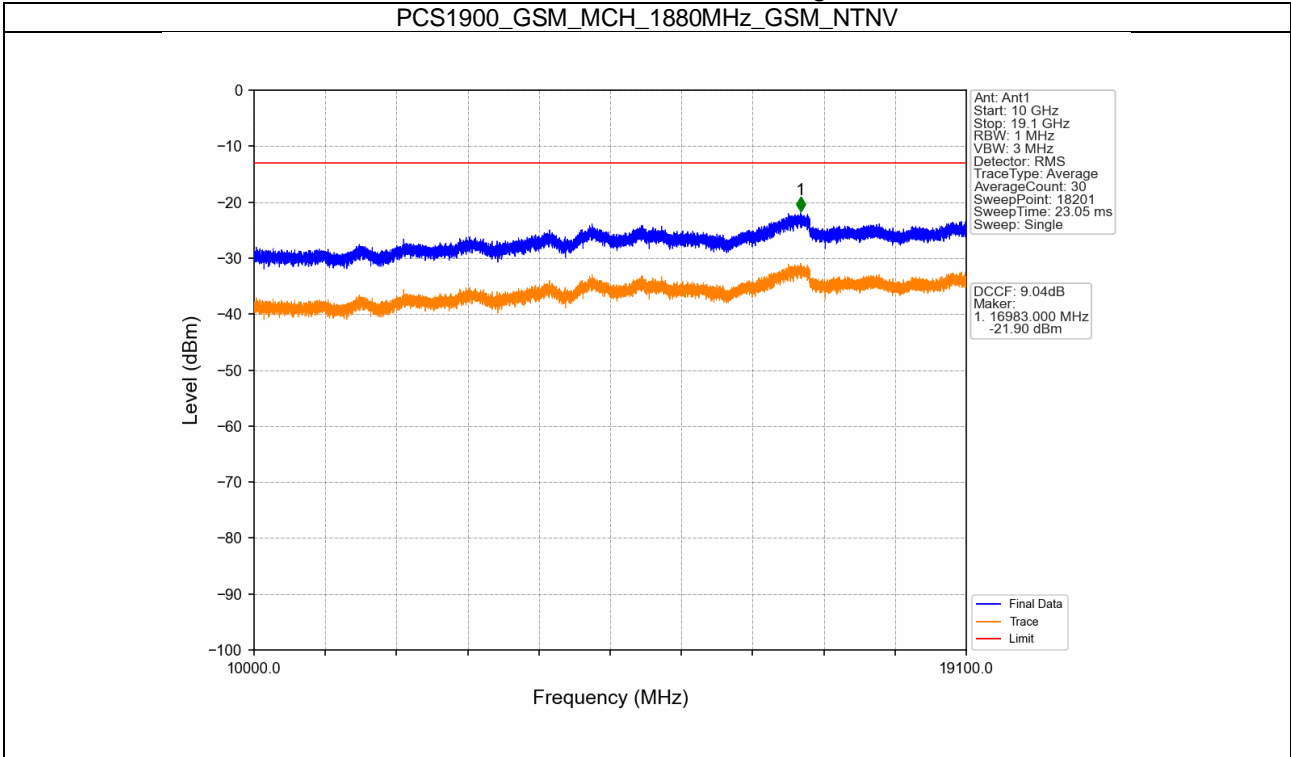
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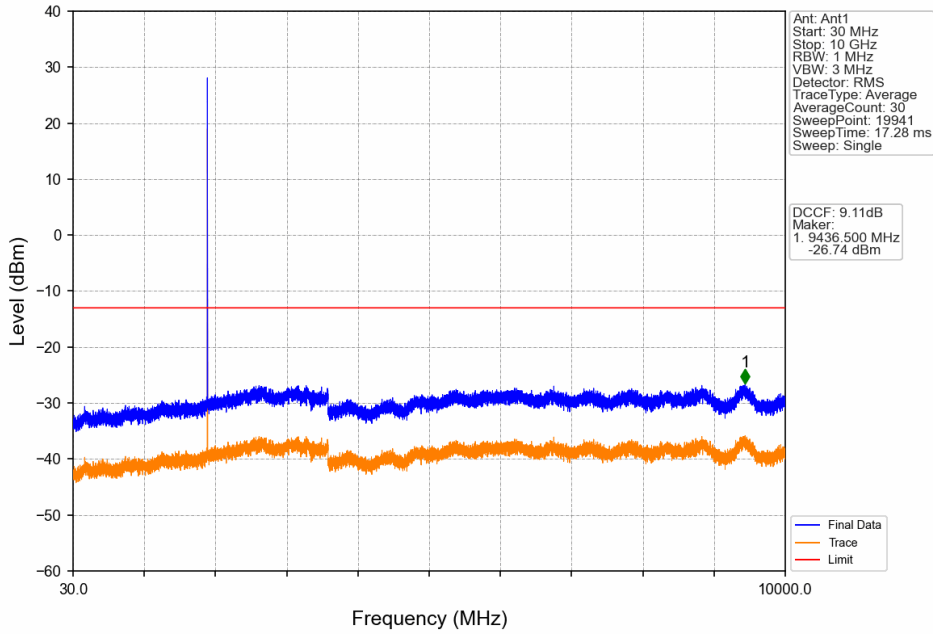
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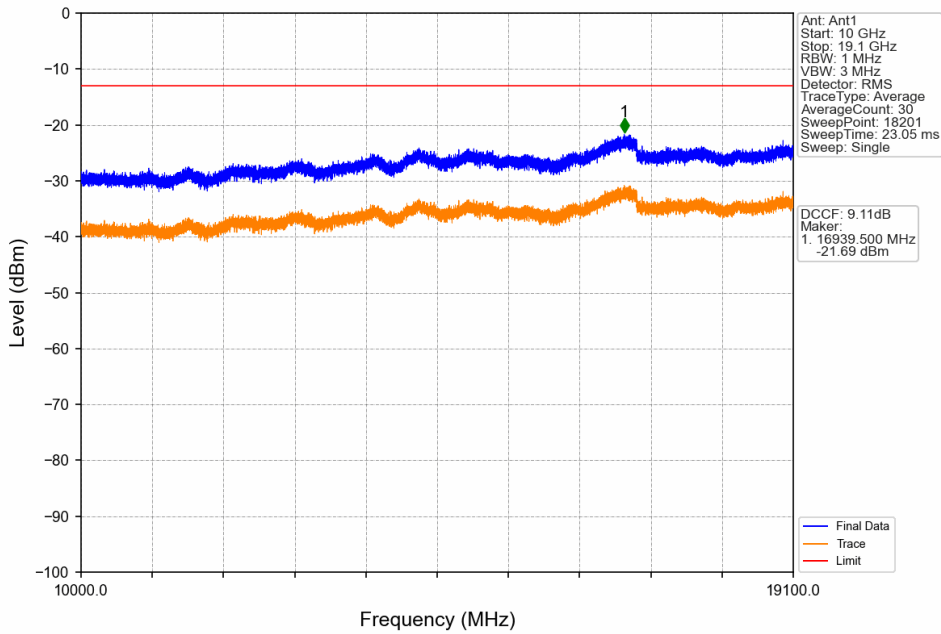


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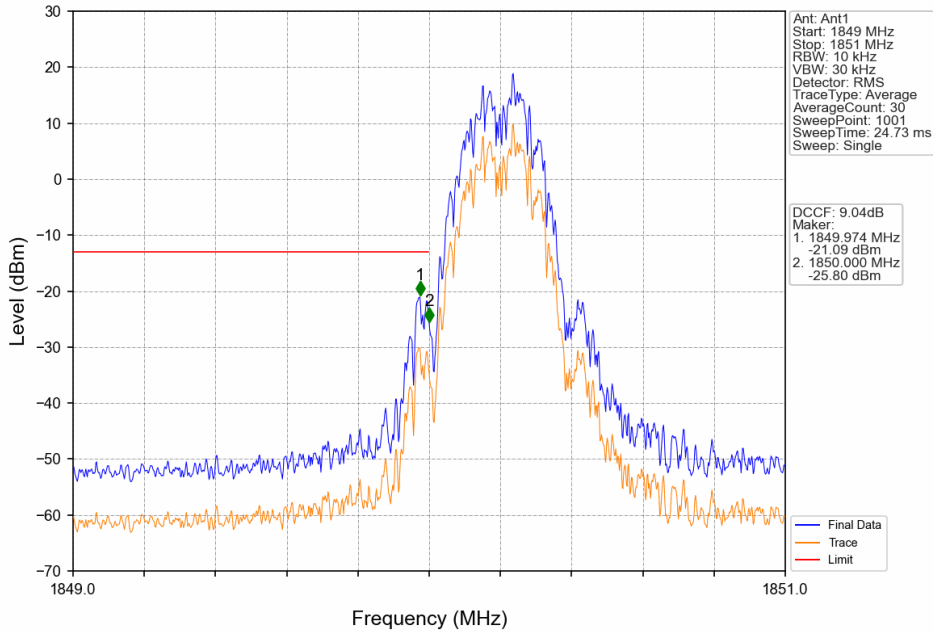


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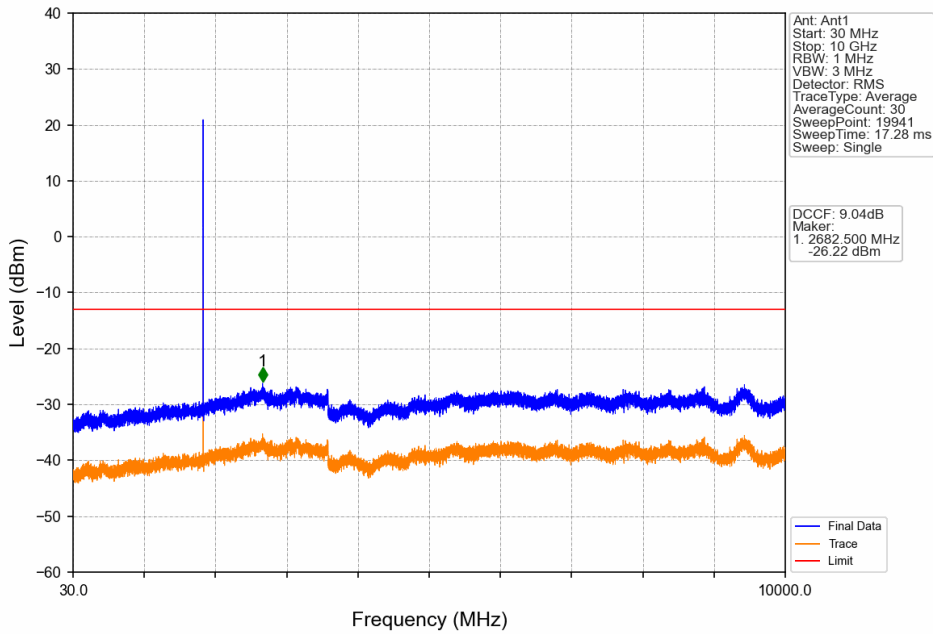


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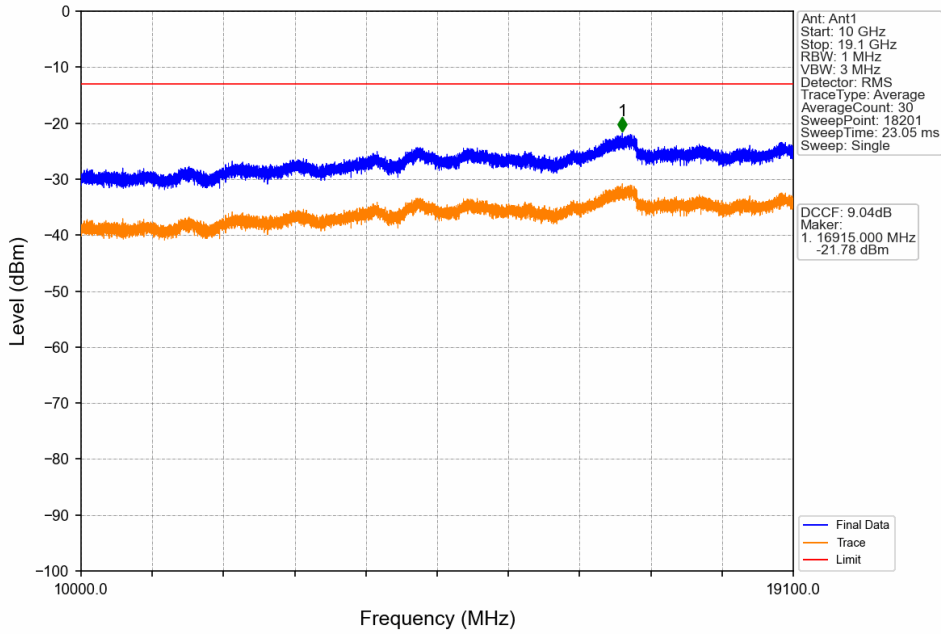
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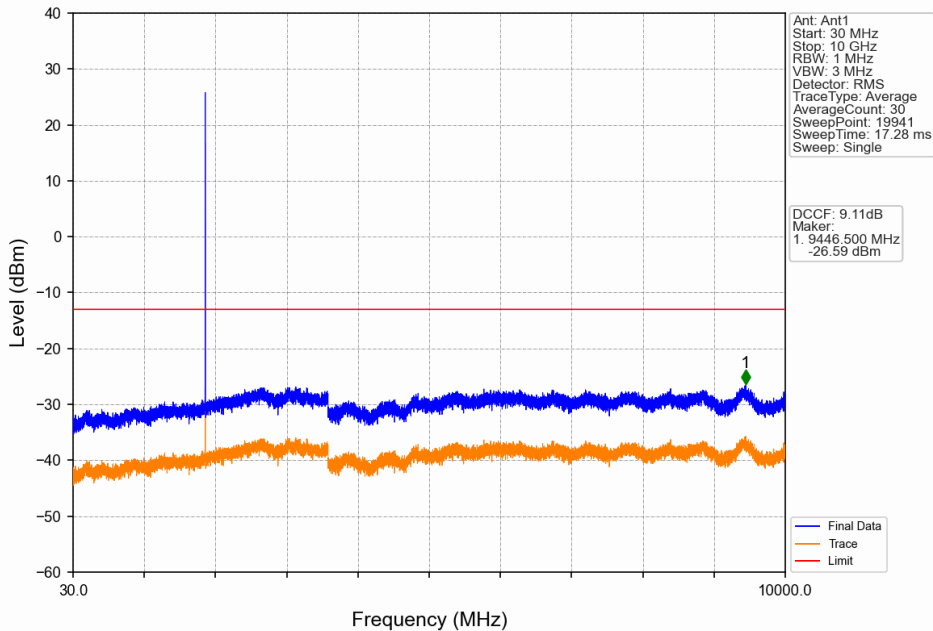
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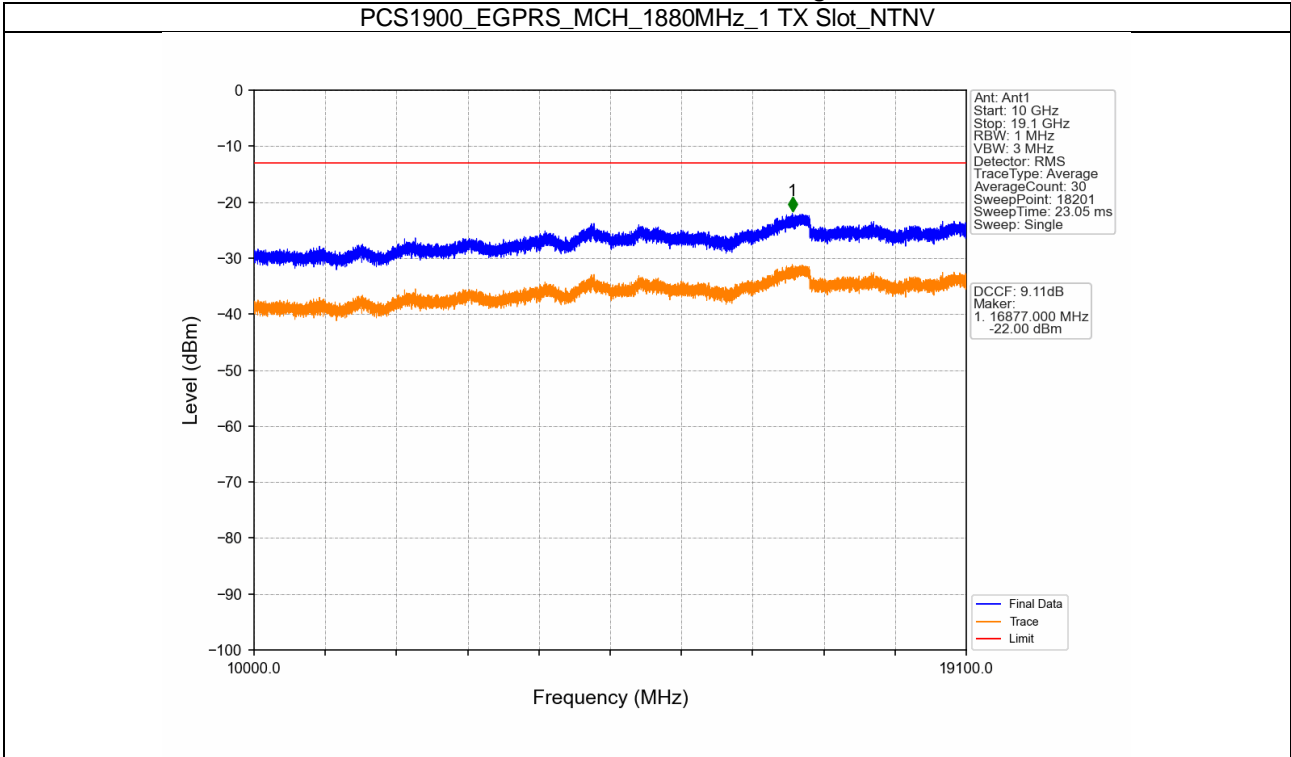


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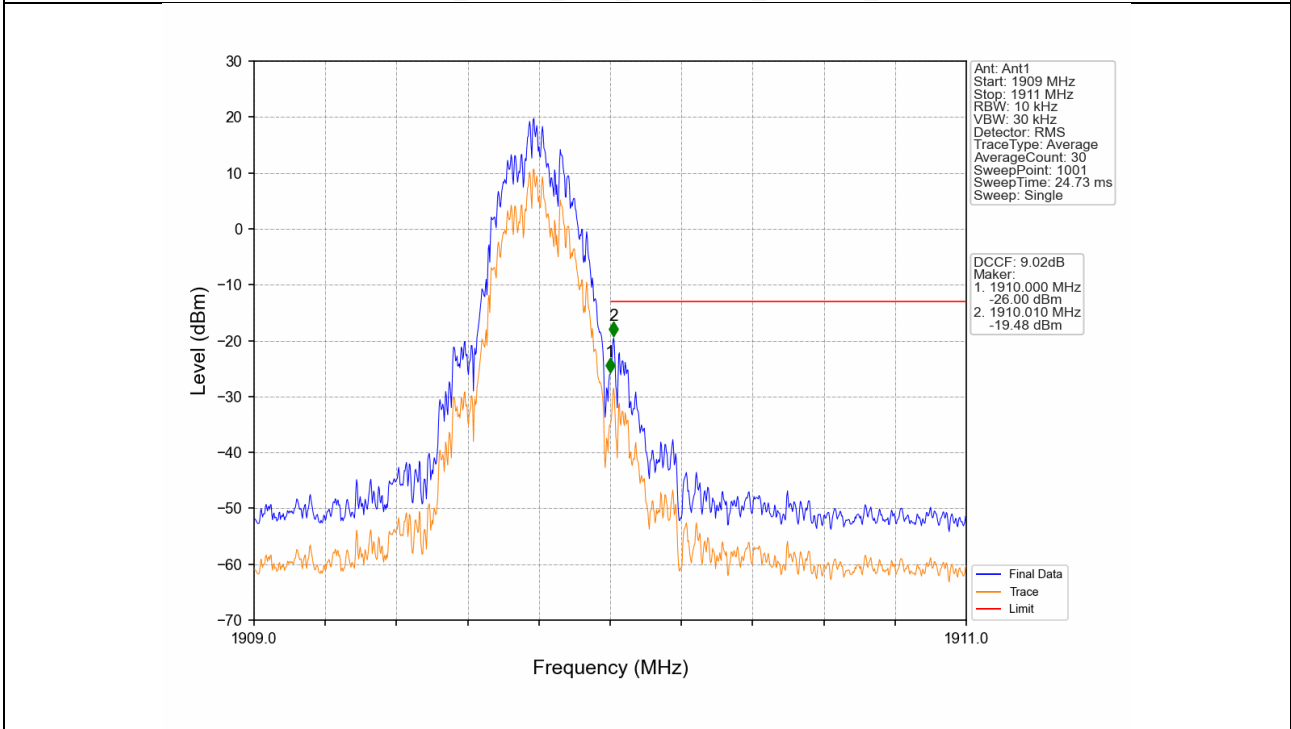


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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

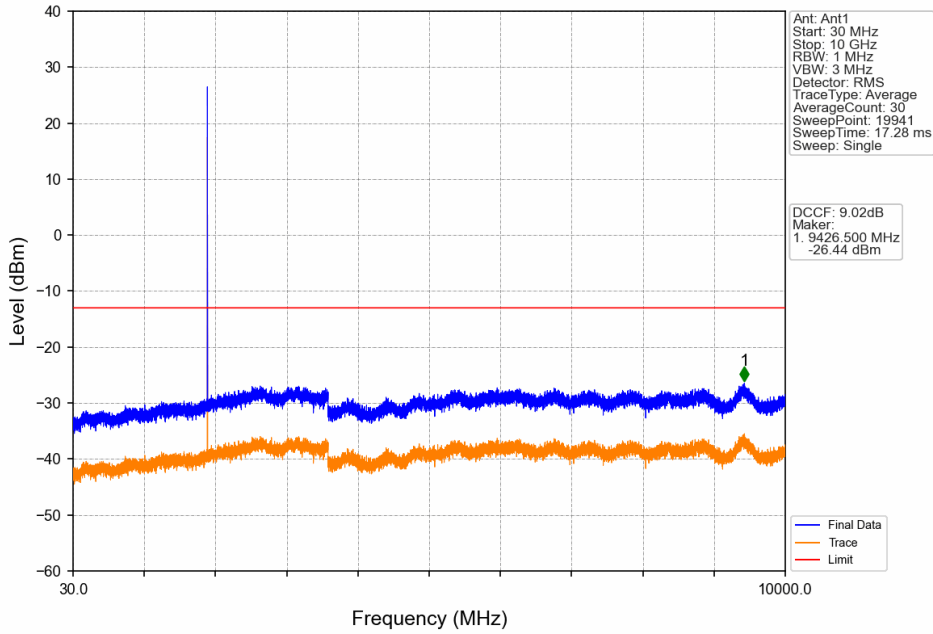


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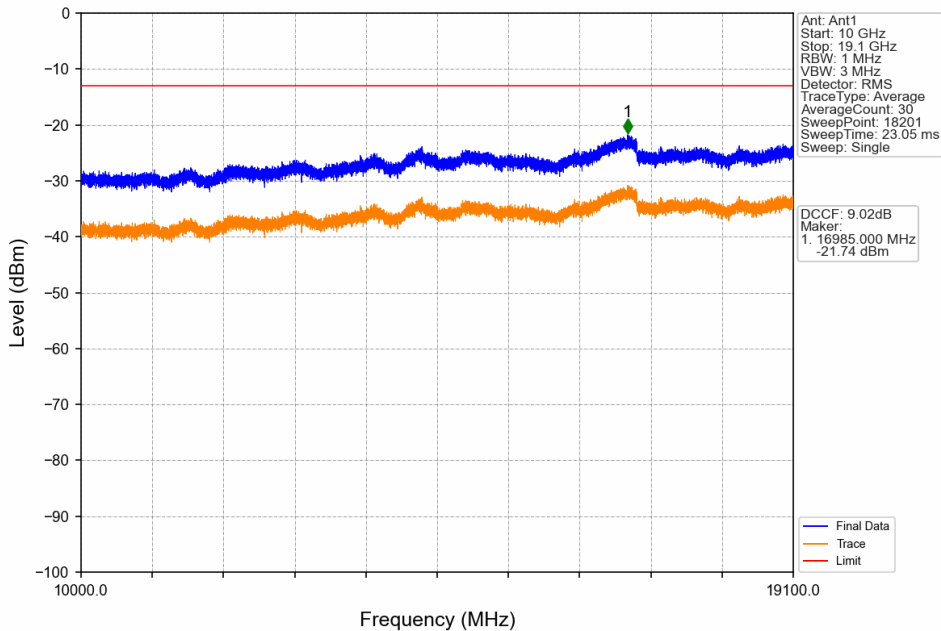
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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

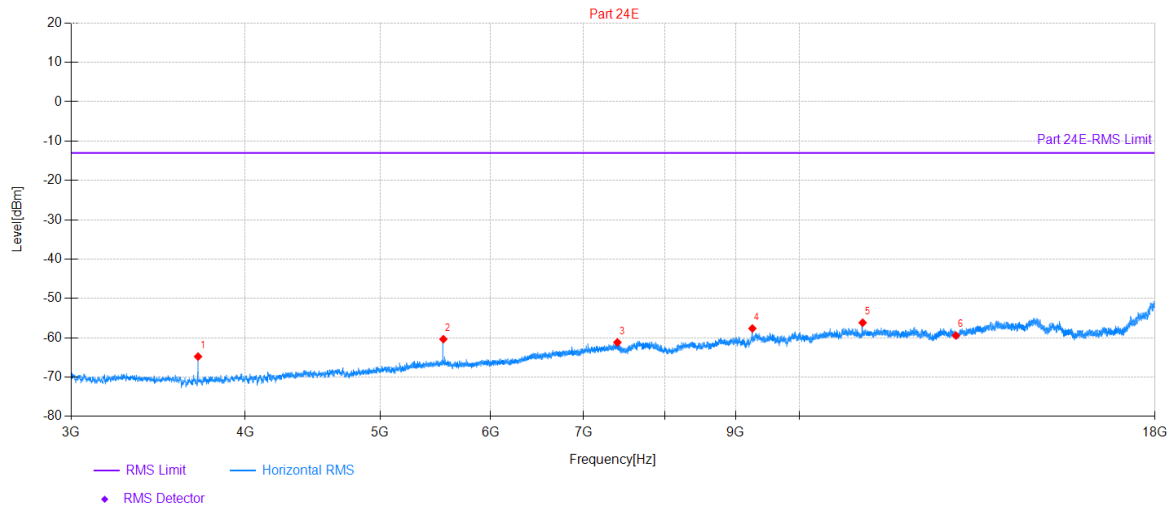


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Field Strength of Spurious Radiation

Test Band = GSM 1900_

Test Channel = Low Channel

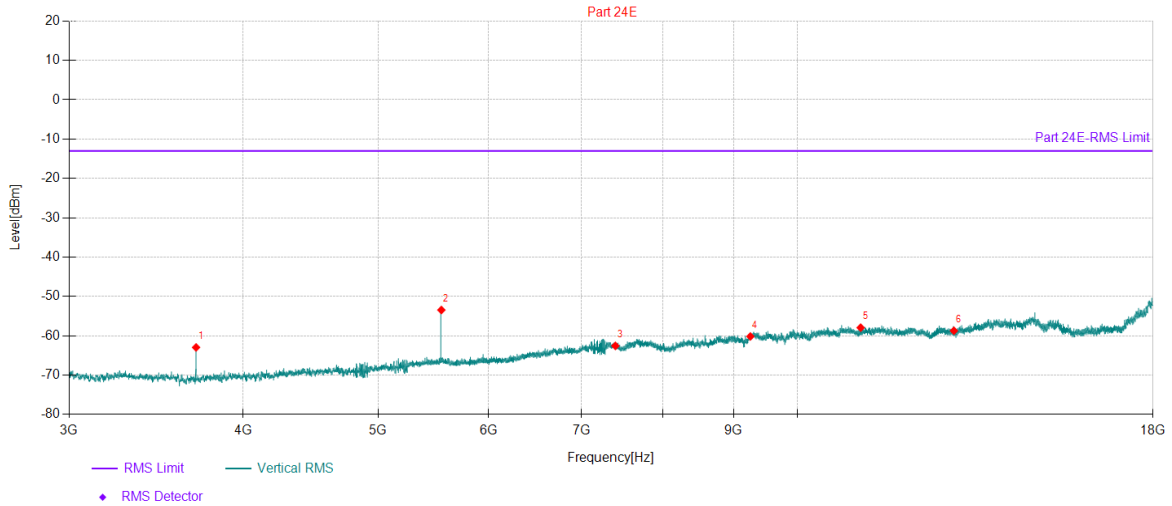


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	50.02	-48.51	28.98	-64.77	-13.00	51.77	Horizontal
2	5550.6	49.86	-47.66	32.71	-60.35	-13.00	47.35	Horizontal
3	7400.8	43.70	-46.17	36.56	-61.17	-13.00	48.17	Horizontal
4	9251	43.01	-43.20	37.83	-57.63	-13.00	44.63	Horizontal
5	11101.2	40.08	-40.36	39.38	-56.16	-13.00	43.16	Horizontal
6	12951.4	36.62	-39.41	38.63	-59.42	-13.00	46.42	Horizontal



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Test Band = GSM 1900_
Test Channel = Low Channel



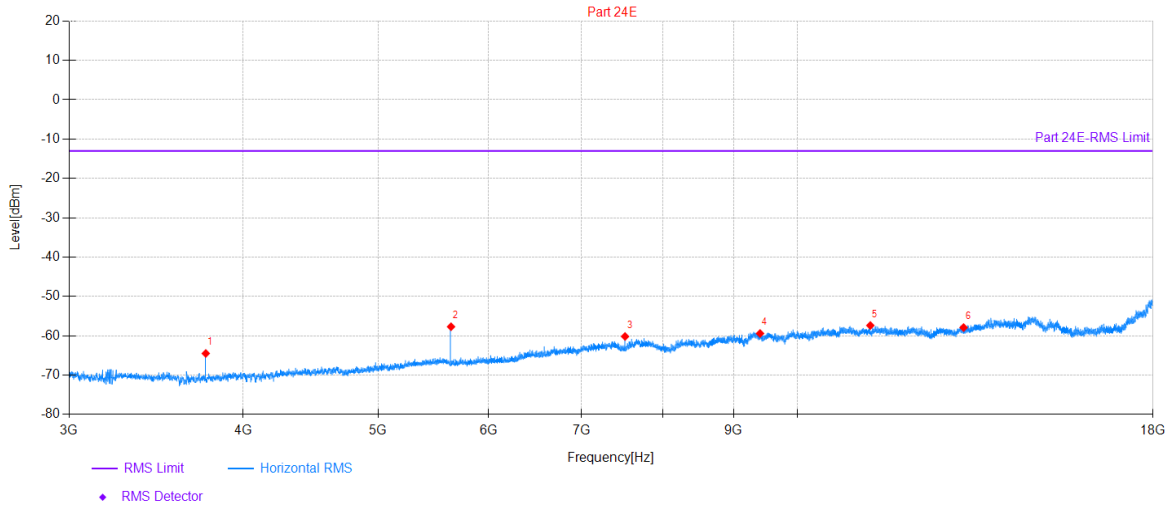
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	51.84	-48.51	28.98	-62.95	-13.00	49.95	Vertical
2	5550.6	56.76	-47.66	32.71	-53.45	-13.00	40.45	Vertical
3	7400.8	42.31	-46.17	36.56	-62.56	-13.00	49.56	Vertical
4	9251	40.48	-43.20	37.83	-60.16	-13.00	47.16	Vertical
5	11101.2	38.31	-40.36	39.38	-57.93	-13.00	44.93	Vertical
6	12951.4	37.33	-39.41	38.63	-58.71	-13.00	45.71	Vertical



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Test Band = GSM 1900_
Test Channel = Mid Channel



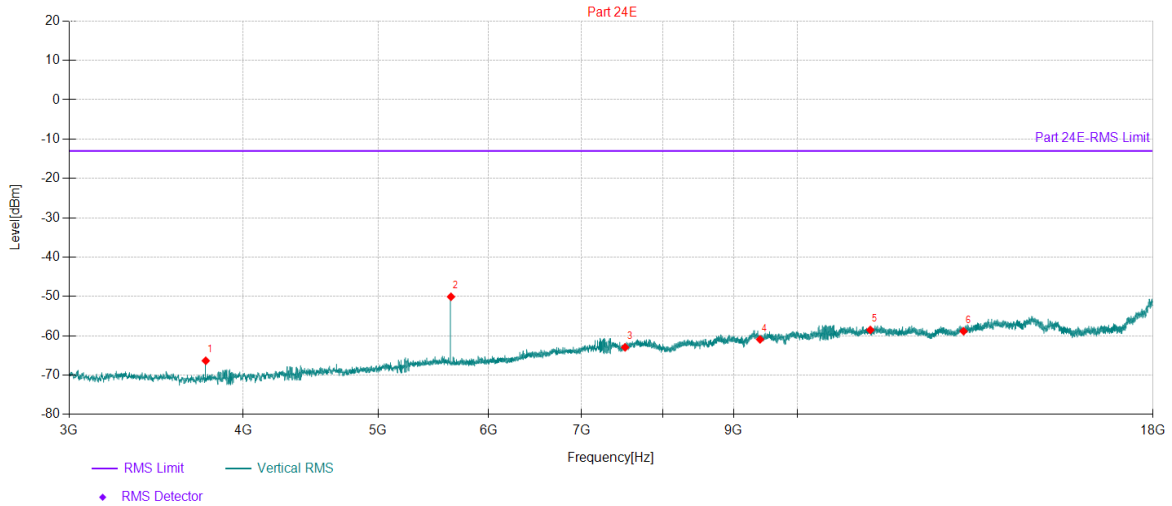
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	50.02	-48.31	29.06	-64.49	-13.00	51.49	Horizontal
2	5640	52.46	-47.62	32.73	-57.69	-13.00	44.69	Horizontal
3	7520	44.16	-45.85	36.78	-60.17	-13.00	47.17	Horizontal
4	9400	40.94	-43.05	37.96	-59.41	-13.00	46.41	Horizontal
5	11280	38.97	-40.44	39.34	-57.38	-13.00	44.38	Horizontal
6	13160	36.96	-38.58	38.97	-57.91	-13.00	44.91	Horizontal



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Test Band = GSM 1900_
Test Channel = Mid Channel



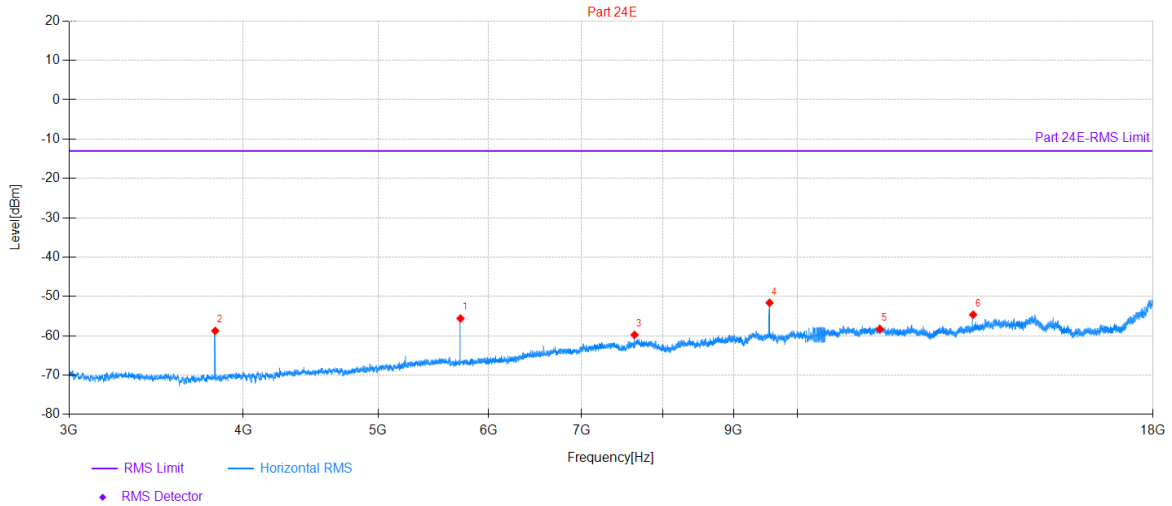
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760	48.16	-48.31	29.06	-66.35	-13.00	53.35	Vertical
2	5640	60.07	-47.62	32.73	-50.08	-13.00	37.08	Vertical
3	7520	41.39	-45.85	36.78	-62.94	-13.00	49.94	Vertical
4	9400	39.43	-43.05	37.96	-60.92	-13.00	47.92	Vertical
5	11280	37.84	-40.44	39.34	-58.51	-13.00	45.51	Vertical
6	13160	36.03	-38.58	38.97	-58.84	-13.00	45.84	Vertical



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Test Band = GSM 1900_
Test Channel = High Channel



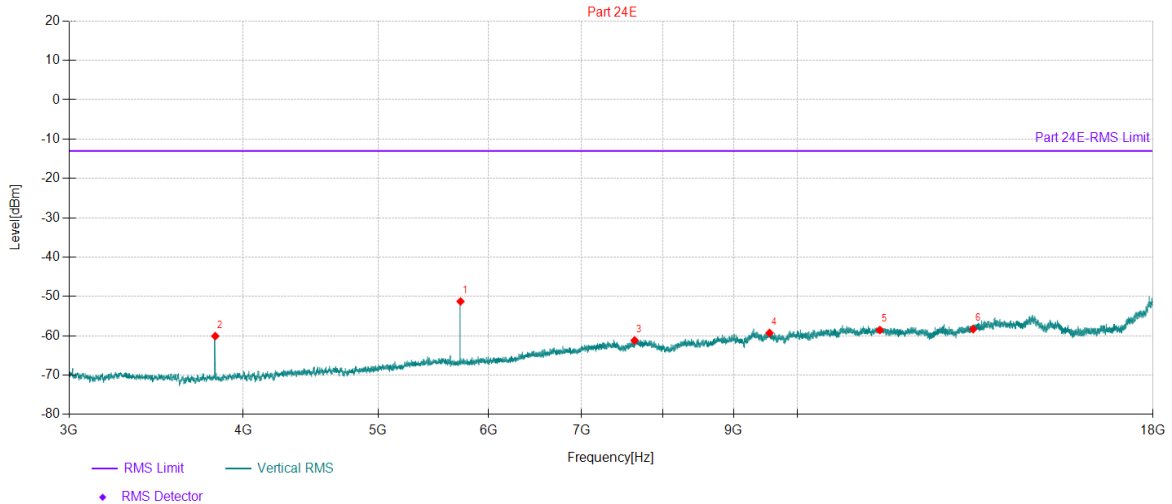
Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	54.45	-47.54	32.75	-55.60	-13.00	42.60	Horizontal
2	3819.6	55.56	-48.20	29.15	-58.75	-13.00	45.75	Horizontal
3	7639.2	43.68	-44.82	36.63	-59.77	-13.00	46.77	Horizontal
4	9549	47.85	-42.31	38.09	-51.62	-13.00	38.62	Horizontal
5	11458.8	37.73	-40.07	39.31	-58.29	-13.00	45.29	Horizontal
6	13368.6	40.32	-39.15	39.45	-54.64	-13.00	41.64	Horizontal



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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	58.78	-47.54	32.75	-51.27	-13.00	38.27	Vertical
2	3819.6	54.23	-48.20	29.15	-60.08	-13.00	47.08	Vertical
3	7639.2	42.27	-44.82	36.63	-61.18	-13.00	48.18	Vertical
4	9549	40.19	-42.31	38.09	-59.28	-13.00	46.28	Vertical
5	11458.8	37.49	-40.07	39.31	-58.53	-13.00	45.53	Vertical
6	13368.6	36.64	-39.15	39.45	-58.32	-13.00	45.32	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



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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	23.762	0.0128	/	Pass	
			3.89	12.010	0.0065	/	Pass	
			4.48	10.009	0.0054	/	Pass	
		-30	3.89	8.362	0.0045	/	Pass	
			-20	3.89	11.397	0.0062	/	Pass
				-10	3.89	12.817	0.0069	/
		0	3.89	11.655	0.0063	/	Pass	
			10	3.89	15.045	0.0081	/	Pass
			30	3.89	11.558	0.0062	/	Pass
			40	3.89	9.524	0.0051	/	Pass
			50	3.89	14.916	0.0081	/	Pass
		1880	20	3.4	15.885	0.0084	/	Pass
	3.89			11.171	0.0059	/	Pass	
	4.48			15.497	0.0082	/	Pass	
	-30		3.89	15.691	0.0083	/	Pass	
			-20	3.89	17.144	0.0091	/	Pass
				-10	3.89	15.529	0.0083	/
	0		3.89	18.112	0.0096	/	Pass	
			10	3.89	17.757	0.0094	/	Pass
			30	3.89	13.721	0.0073	/	Pass
			40	3.89	19.920	0.0106	/	Pass
			50	3.89	11.203	0.0060	/	Pass
	1909.8		20	3.4	19.178	0.0100	/	Pass
		3.89		19.533	0.0102	/	Pass	
		4.48		13.560	0.0071	/	Pass	
		-30	3.89	14.690	0.0077	/	Pass	
			-20	3.89	18.758	0.0098	/	Pass
				-10	3.89	16.821	0.0088	/
		0	3.89	20.082	0.0105	/	Pass	
			10	3.89	19.113	0.0100	/	Pass
			30	3.89	18.016	0.0094	/	Pass
			40	3.89	16.466	0.0086	/	Pass
			50	3.89	19.953	0.0104	/	Pass
		EGPRS	1850.2	20	3.4	26.959	0.0146	/
	3.89				25.764	0.0139	/	Pass
	4.48				26.281	0.0142	/	Pass
-30	3.89			29.897	0.0162	/	Pass	
	-20			3.89	27.443	0.0148	/	Pass
				-10	3.89	25.474	0.0138	/
0	3.89			27.314	0.0148	/	Pass	
	10			3.89	28.573	0.0154	/	Pass
	30			3.89	25.538	0.0138	/	Pass
	40			3.89	28.412	0.0154	/	Pass



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Rev.: 01

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	1880	50	3.89	28.864	0.0156	/	Pass
		20	3.4	30.639	0.0163	/	Pass
			3.89	30.542	0.0162	/	Pass
			4.48	31.511	0.0168	/	Pass
			-30	3.89	32.512	0.0173	/
		-20	3.89	28.767	0.0153	/	Pass
		-10	3.89	32.286	0.0172	/	Pass
		0	3.89	30.833	0.0164	/	Pass
		10	3.89	31.866	0.0170	/	Pass
		30	3.89	33.319	0.0177	/	Pass
	40	3.89	34.158	0.0182	/	Pass	
	50	3.89	34.384	0.0183	/	Pass	
	1909.8	20	3.4	35.353	0.0185	/	Pass
			3.89	32.512	0.0170	/	Pass
			4.48	31.931	0.0167	/	Pass
		-30	3.89	33.513	0.0175	/	Pass
		-20	3.89	32.706	0.0171	/	Pass
		-10	3.89	34.191	0.0179	/	Pass
		0	3.89	33.222	0.0174	/	Pass
10		3.89	32.350	0.0169	/	Pass	
30		3.89	33.384	0.0175	/	Pass	
40	3.89	31.543	0.0165	/	Pass		
50	3.89	35.740	0.0187	/	Pass		

---End of Attachment---



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