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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	27.35	0.90	28.25	<=33.00	Pass
			1880	27.38	0.90	28.28	<=33.00	Pass
			1909.8	27.41	0.90	28.31	<=33.00	Pass
	EGPRS	1 TX Slot	1850.2	23.06	0.90	23.96	<=33.00	Pass
		2 TX Slots	1850.2	22.41	0.90	23.31	<=33.00	Pass
		3 TX Slots	1850.2	20.36	0.90	21.26	<=33.00	Pass
		4 TX Slots	1850.2	20.03	0.90	20.93	<=33.00	Pass
		1 TX Slot	1880	23.12	0.90	24.02	<=33.00	Pass
		2 TX Slots	1880	22.36	0.90	23.26	<=33.00	Pass
		3 TX Slots	1880	20.42	0.90	21.32	<=33.00	Pass
		4 TX Slots	1880	20.12	0.90	21.02	<=33.00	Pass
		1 TX Slot	1909.8	23.13	0.90	24.03	<=33.00	Pass
		2 TX Slots	1909.8	22.38	0.90	23.28	<=33.00	Pass
		3 TX Slots	1909.8	20.43	0.90	21.33	<=33.00	Pass
		4 TX Slots	1909.8	20.16	0.90	21.06	<=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	9.79	<=13	Pass
			1880	9.73	<=13	Pass
			1909.8	9.99	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.36	<=13	Pass
			1880	7.87	<=13	Pass
			1909.8	7.78	<=13	Pass

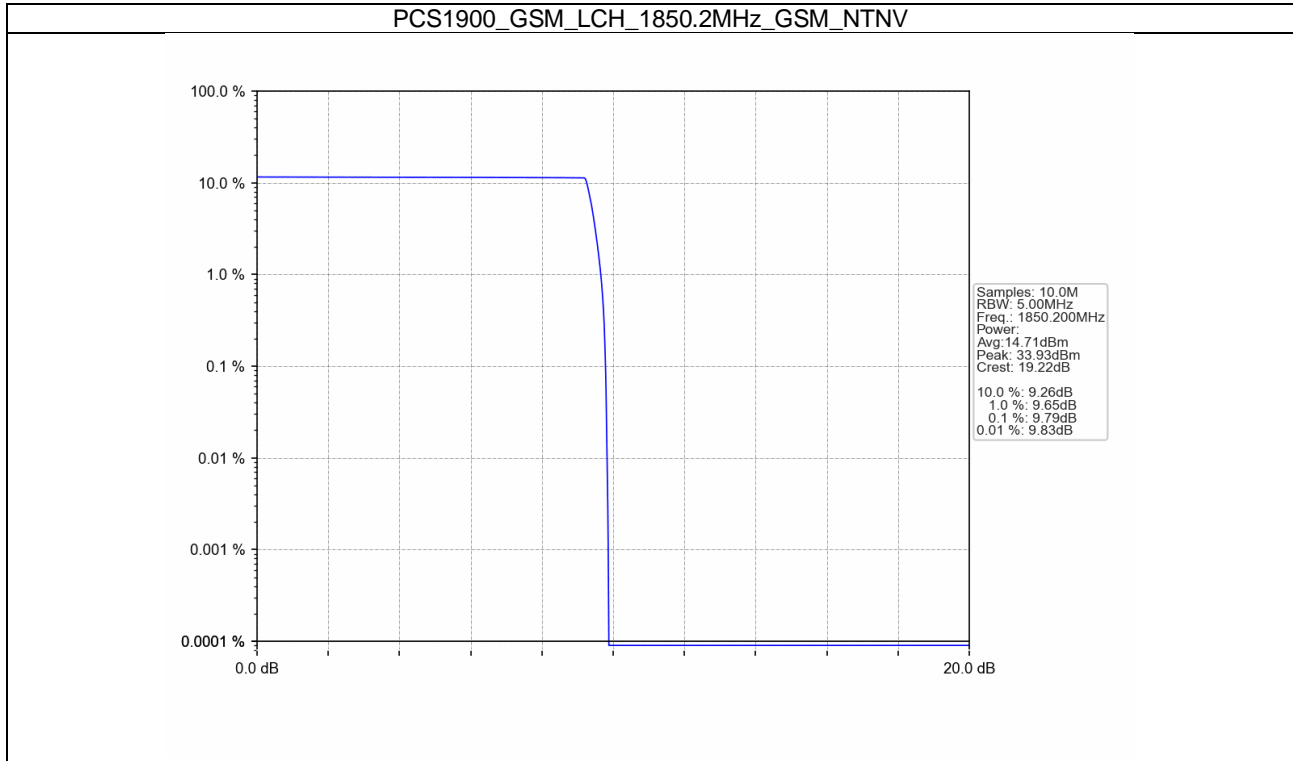


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Test Graph



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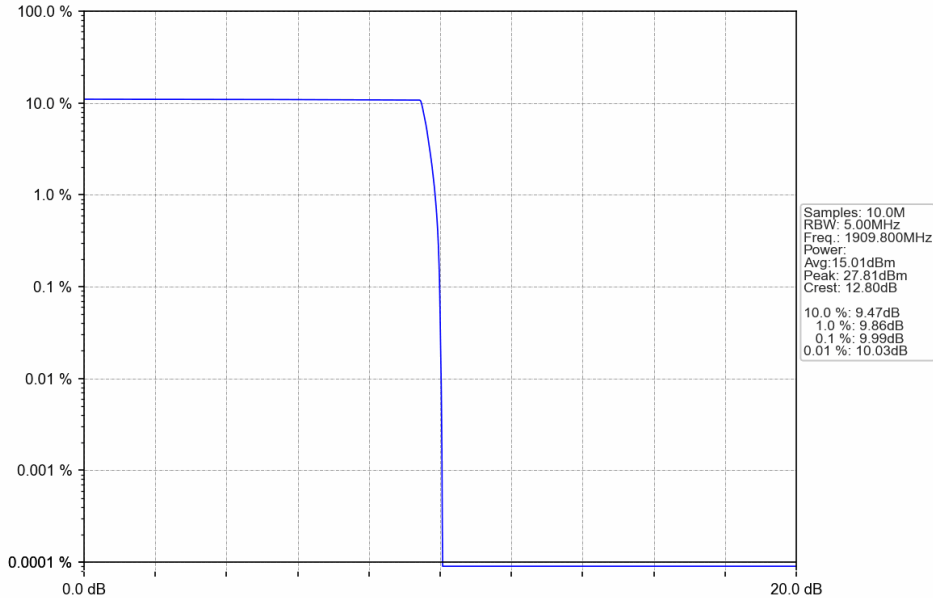


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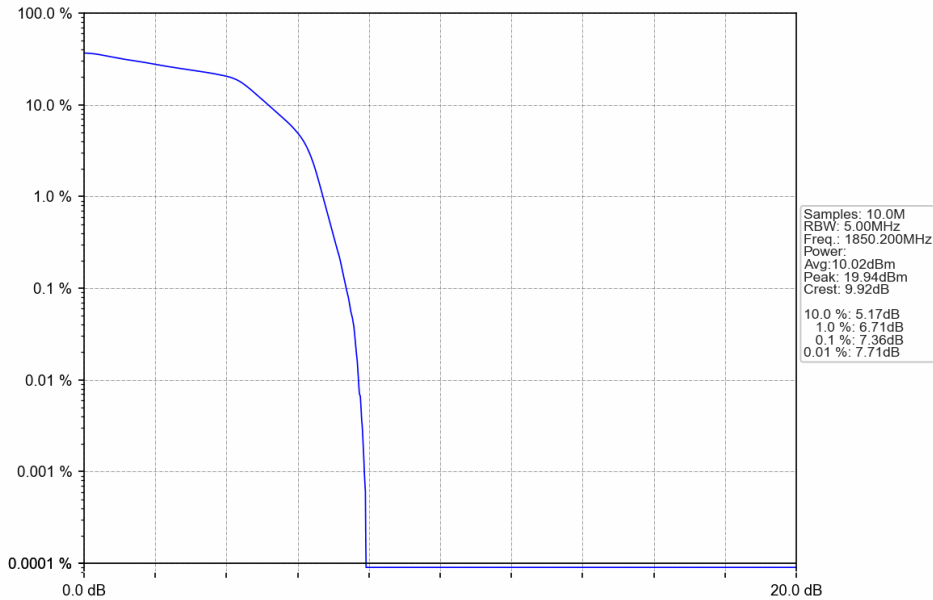
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PCS1900_GSM_HCH_1909.8MHz_GSM_NTNV



PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



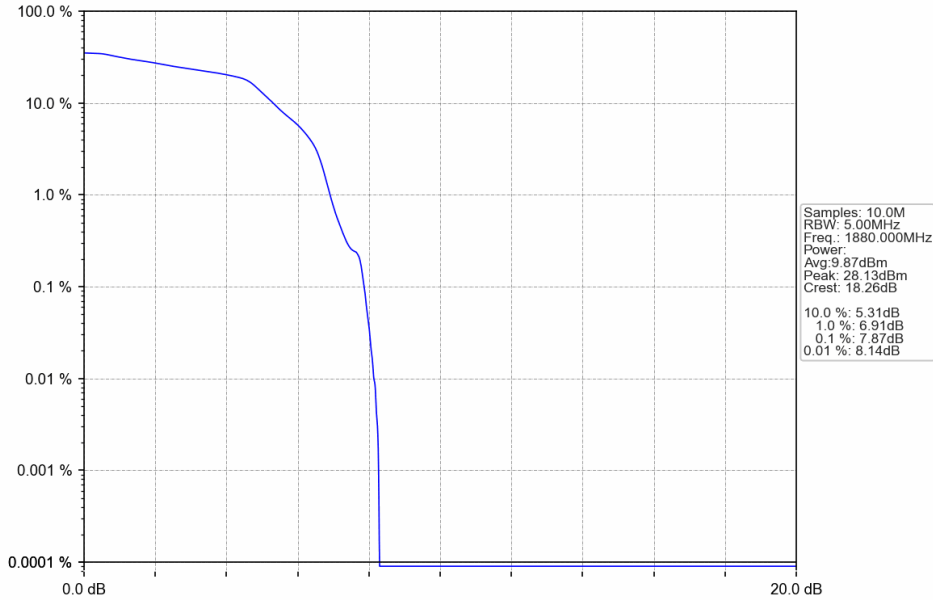
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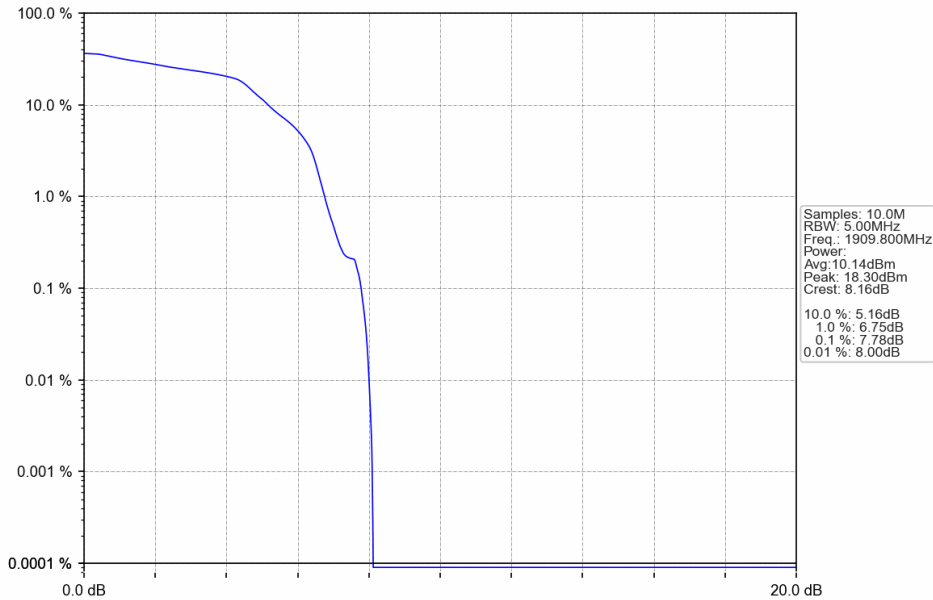
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PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



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	0.244	/	Pass
			1880	0.243	/	Pass
			1909.8	0.242	/	Pass
	EGPRS	1 TX Slot	1850.2	0.245	/	Pass
			1880	0.244	/	Pass
			1909.8	0.246	/	Pass



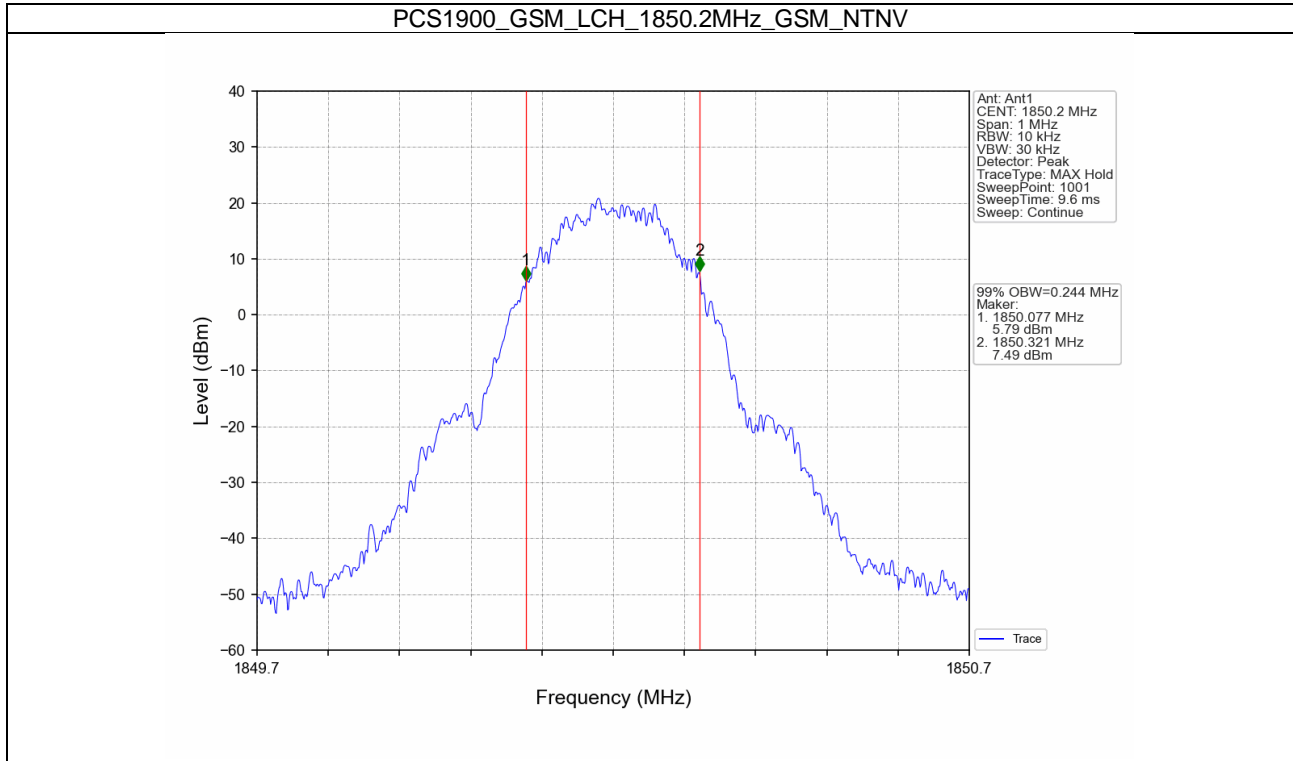
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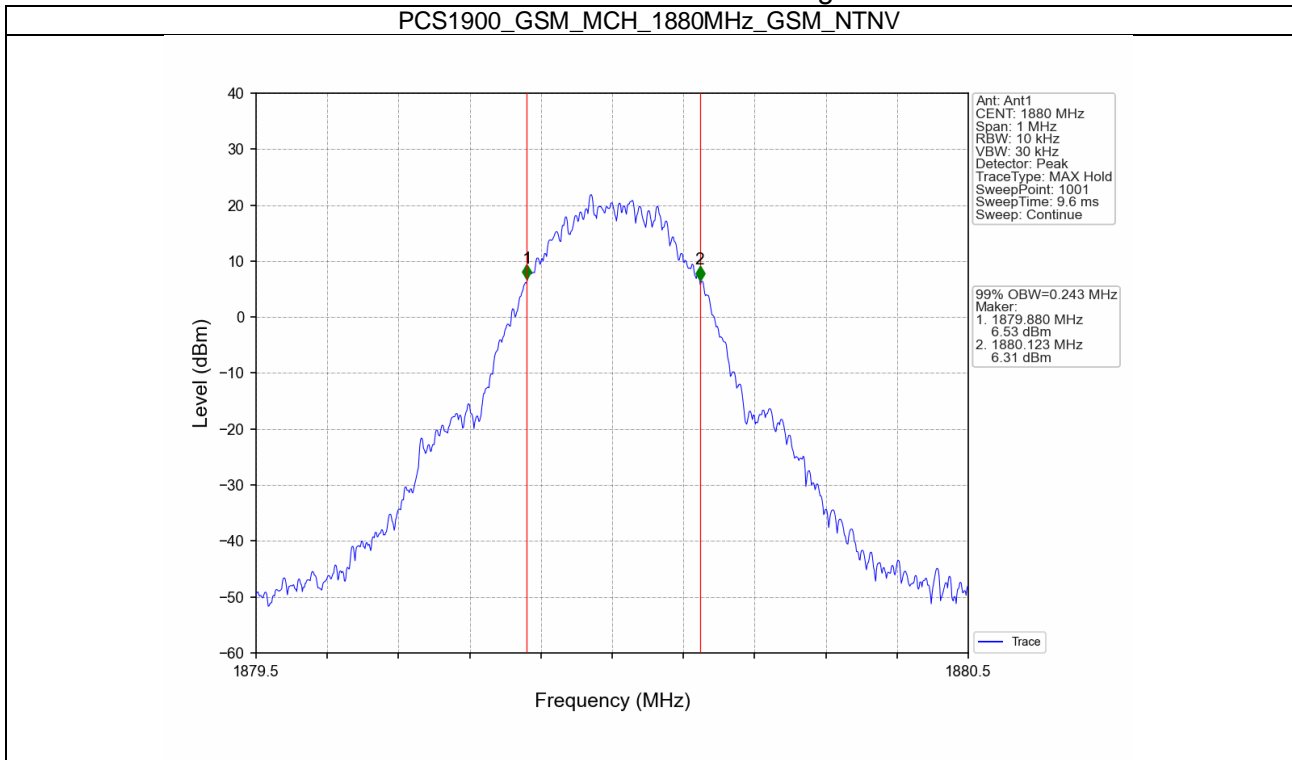
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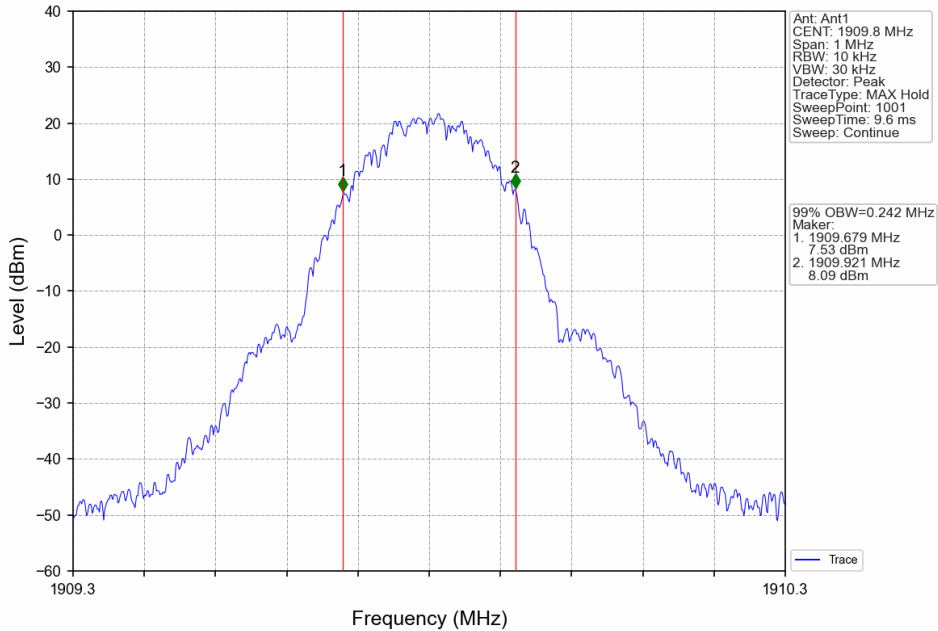
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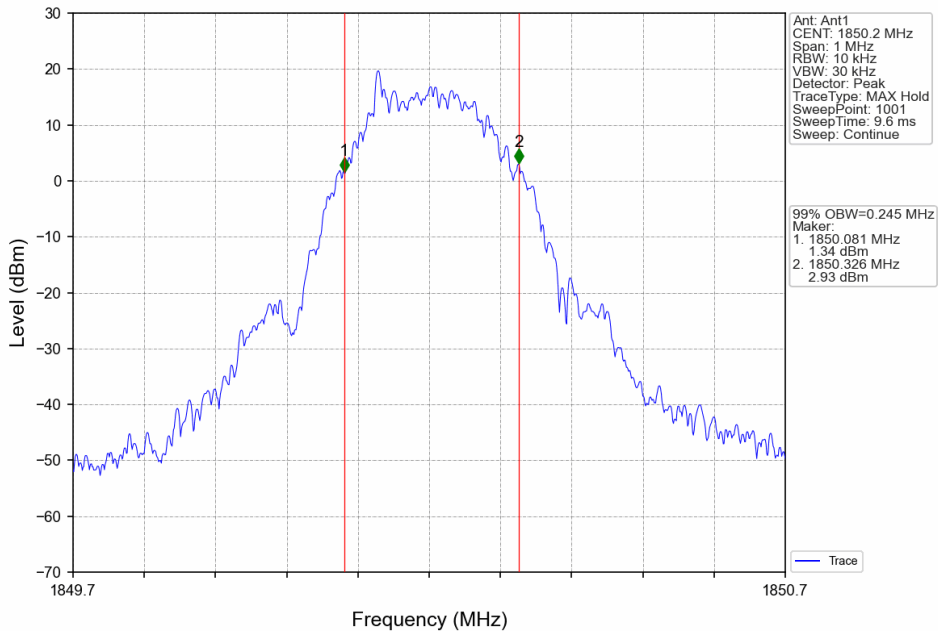
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PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



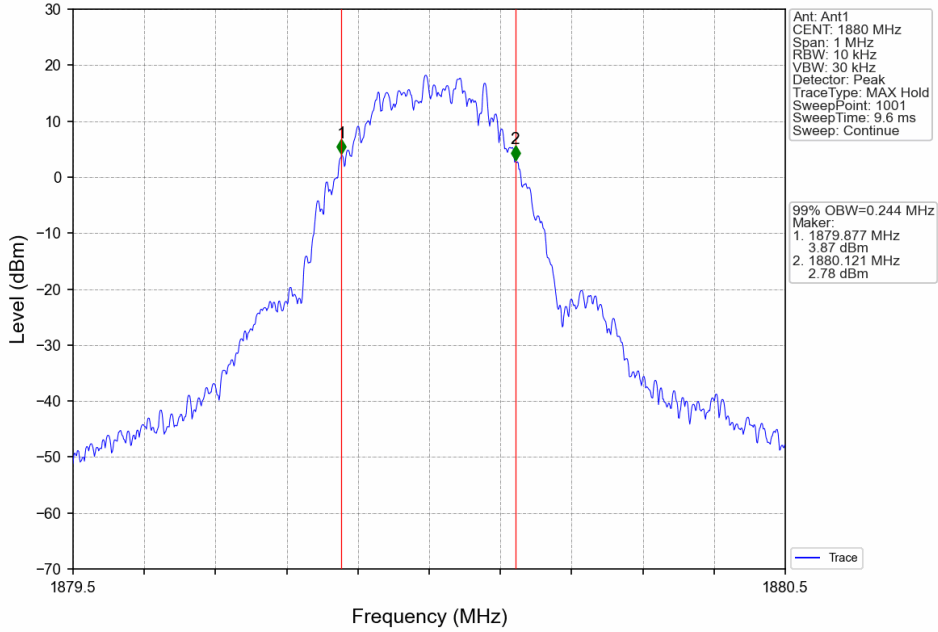
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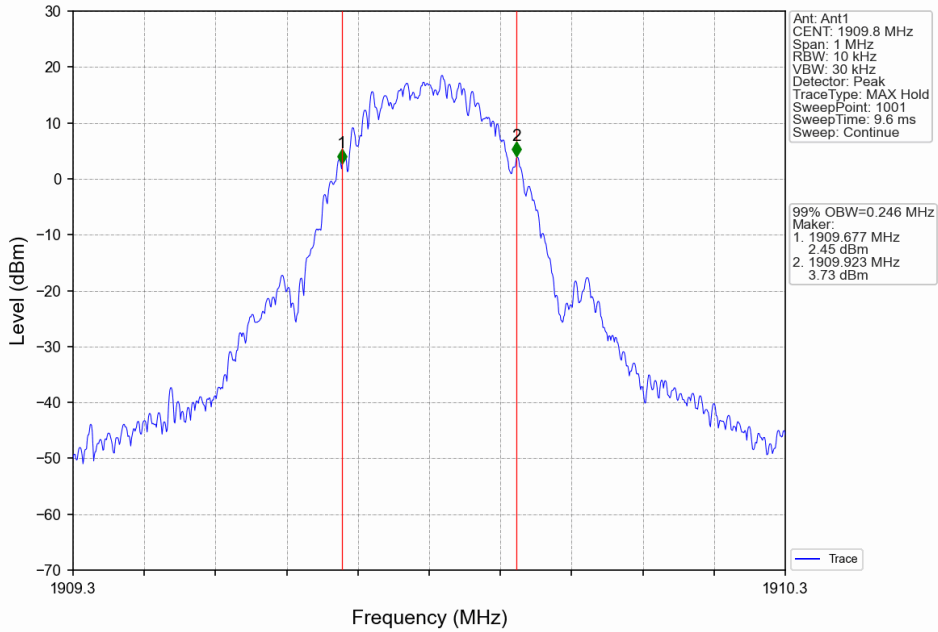
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



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	0.315	/	Pass
			1880	0.314	/	Pass
			1909.8	0.316	/	Pass
	EGPRS	1 TX Slot	1850.2	0.304	/	Pass
			1880	0.315	/	Pass
			1909.8	0.305	/	Pass



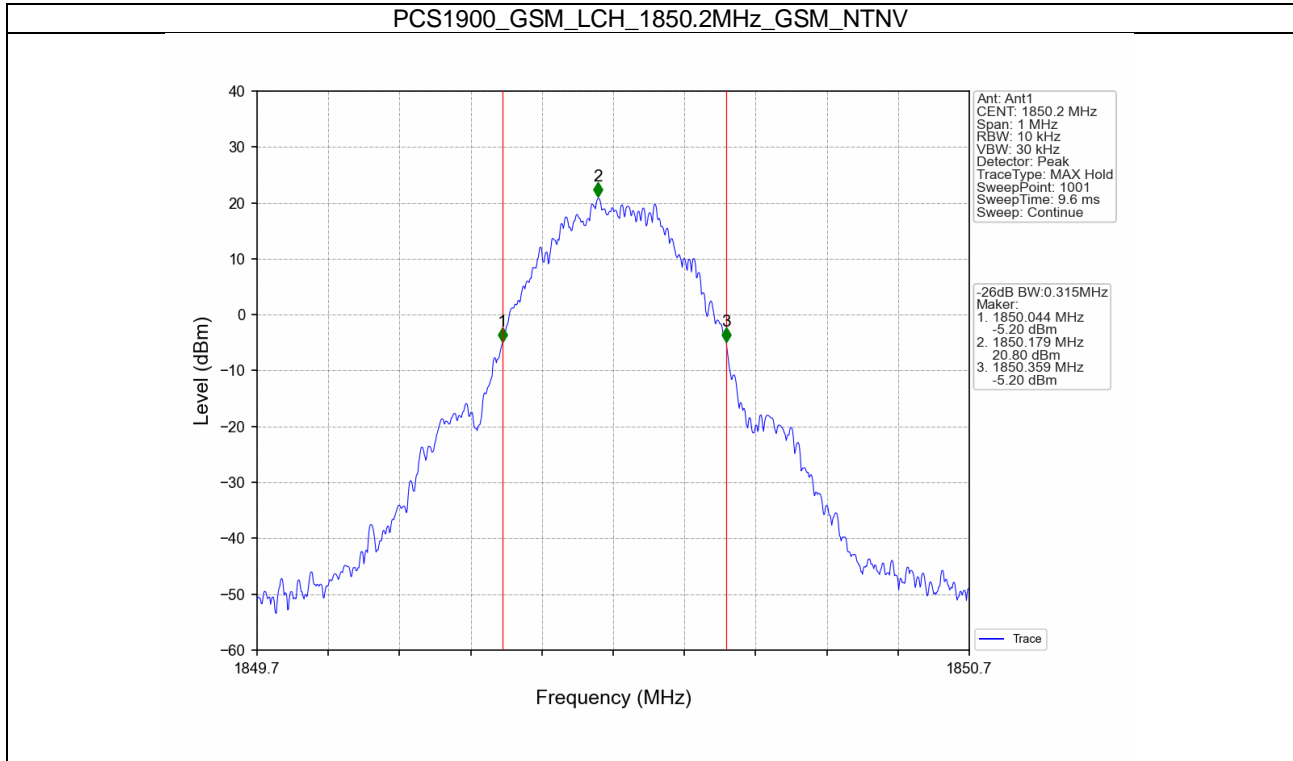
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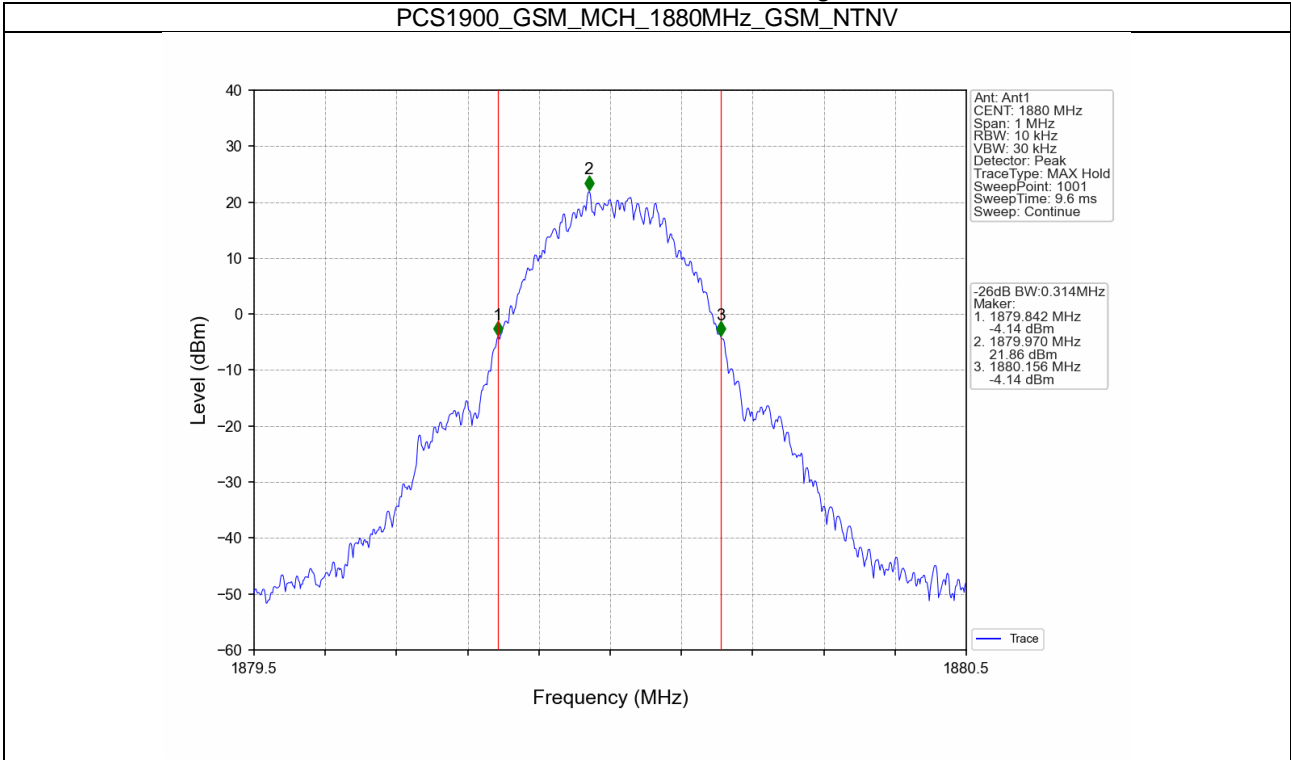
Test Graph



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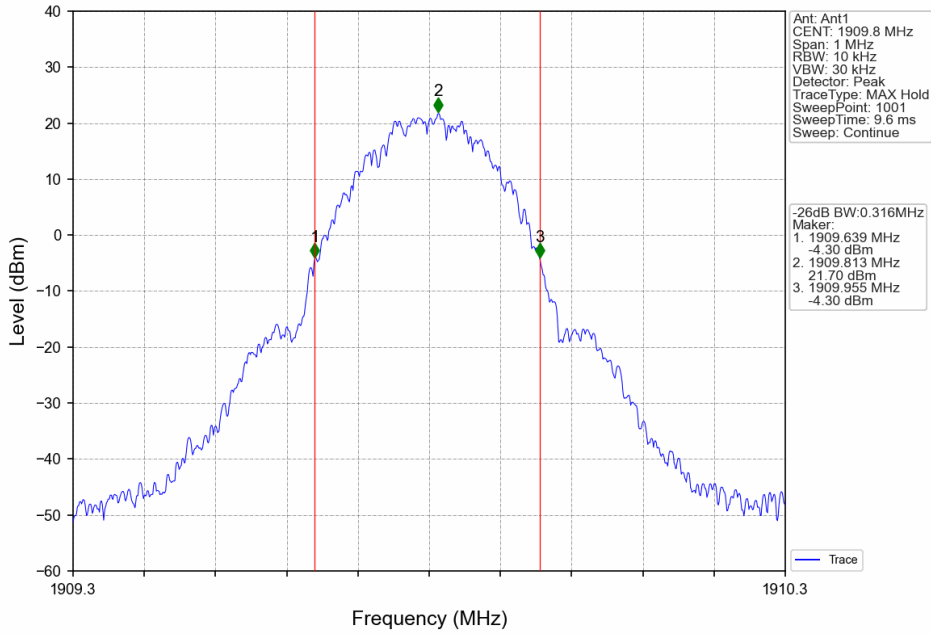


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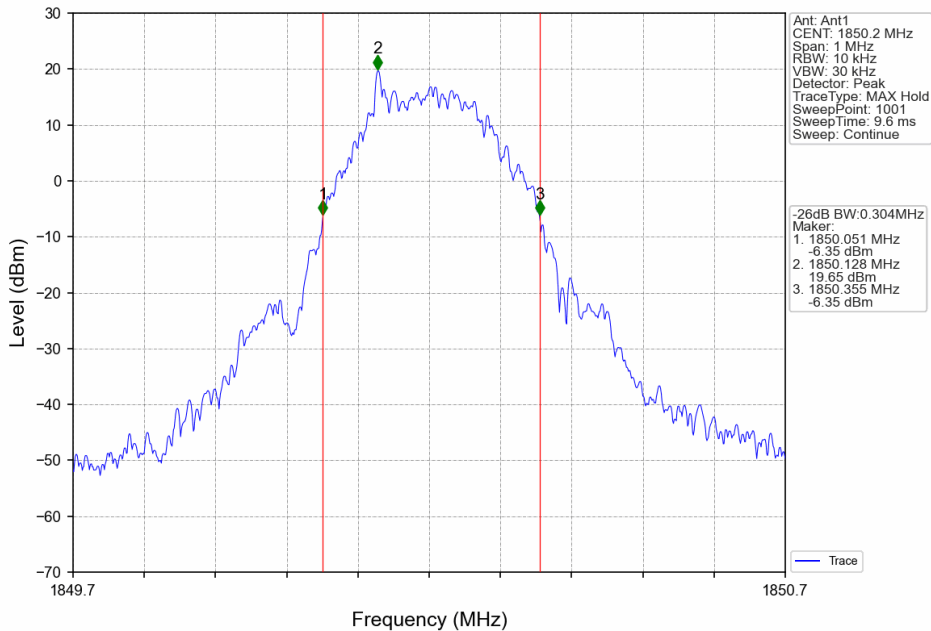
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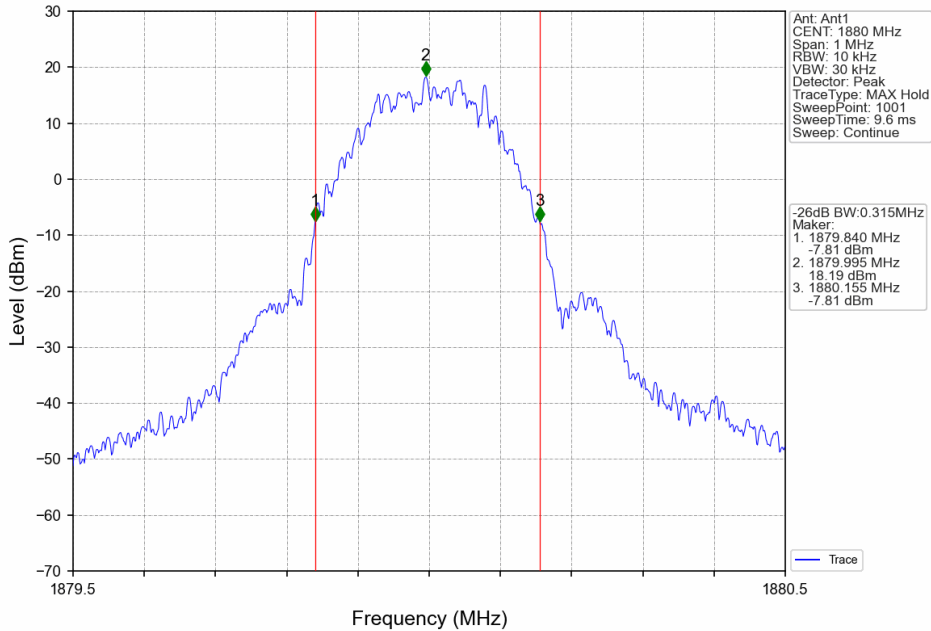


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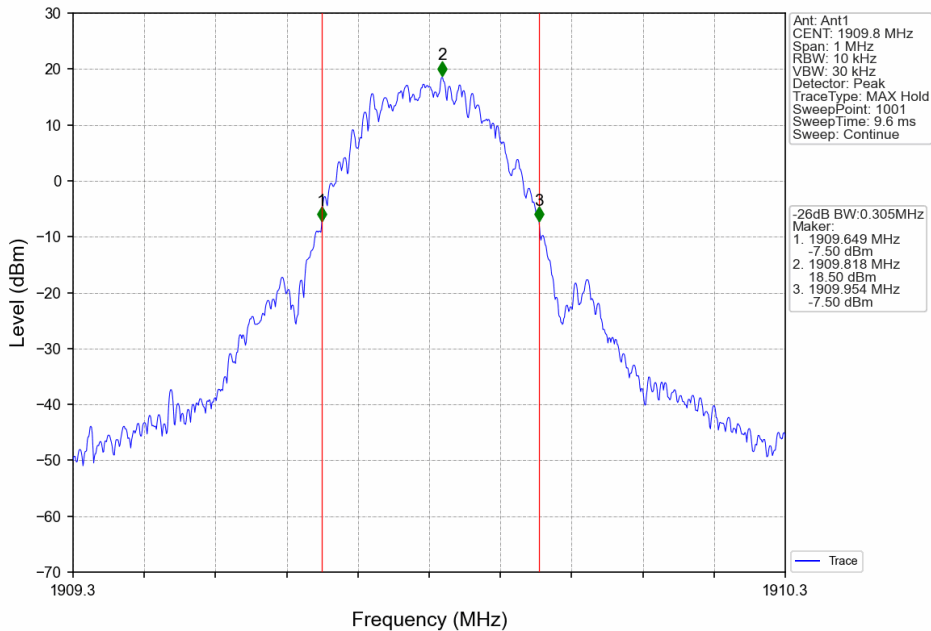
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Rev.: 01
Page: 18 of 35

Spurious Emission & Band Edge

PCS1900

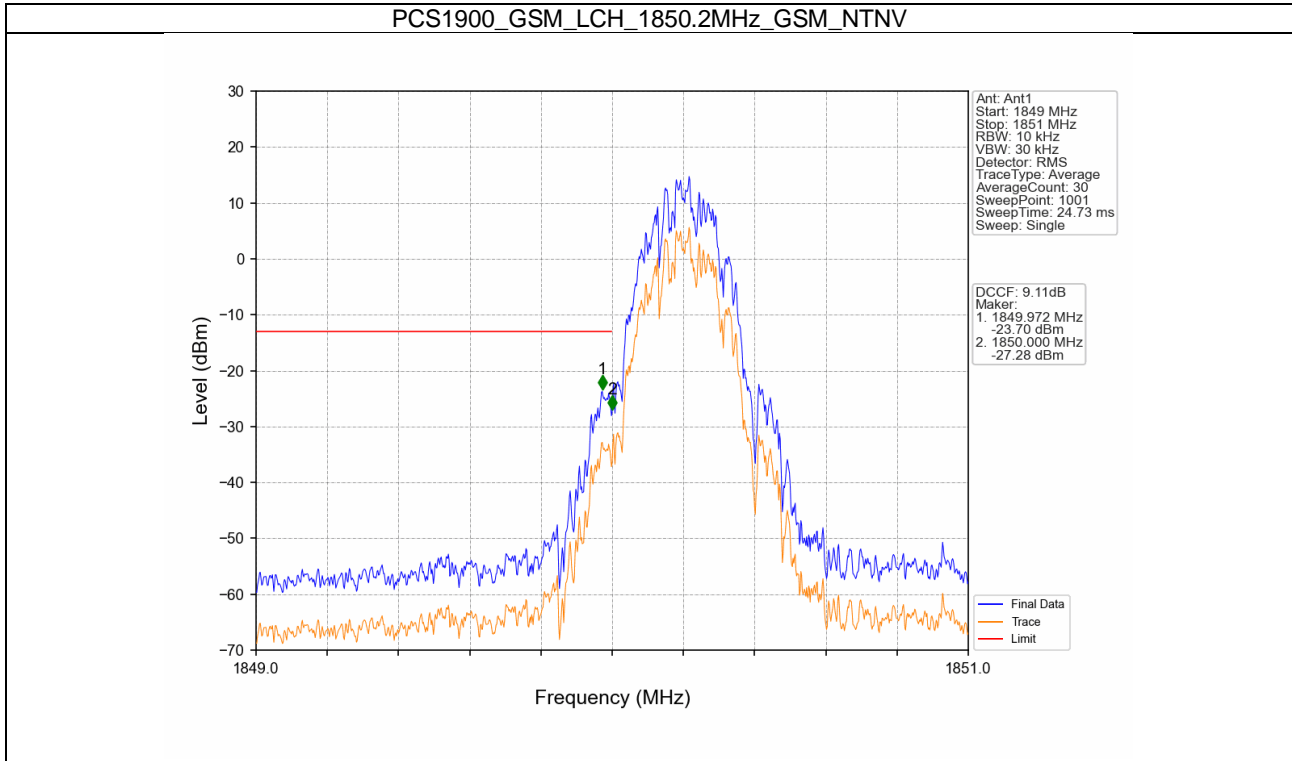
Test Result

Table with columns: ENV, Mode (Network, Subset), Frequency (MHz), Spurious Emission (Result, Limit), and Verdict. Data rows show test results for NTNV in GSM and EGPRS modes across various frequencies, all resulting in 'Pass' verdicts.



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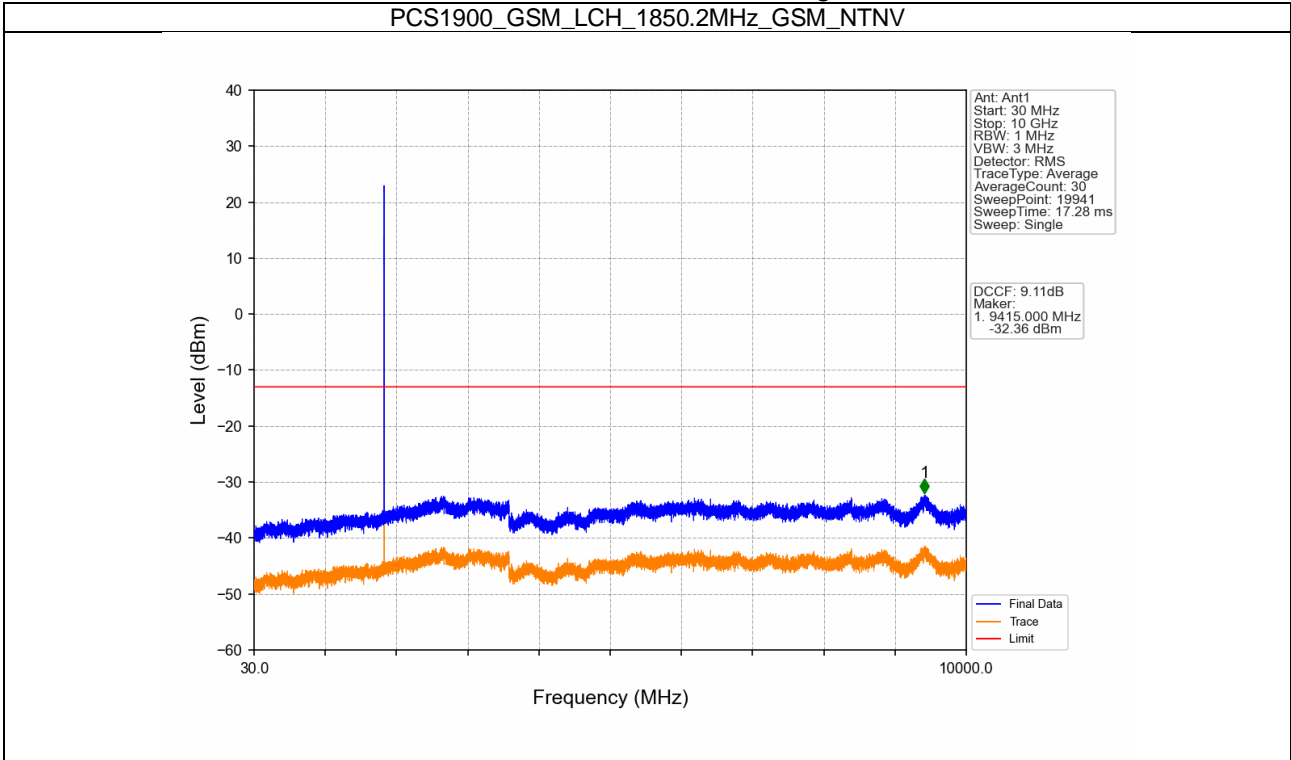
Test Graph



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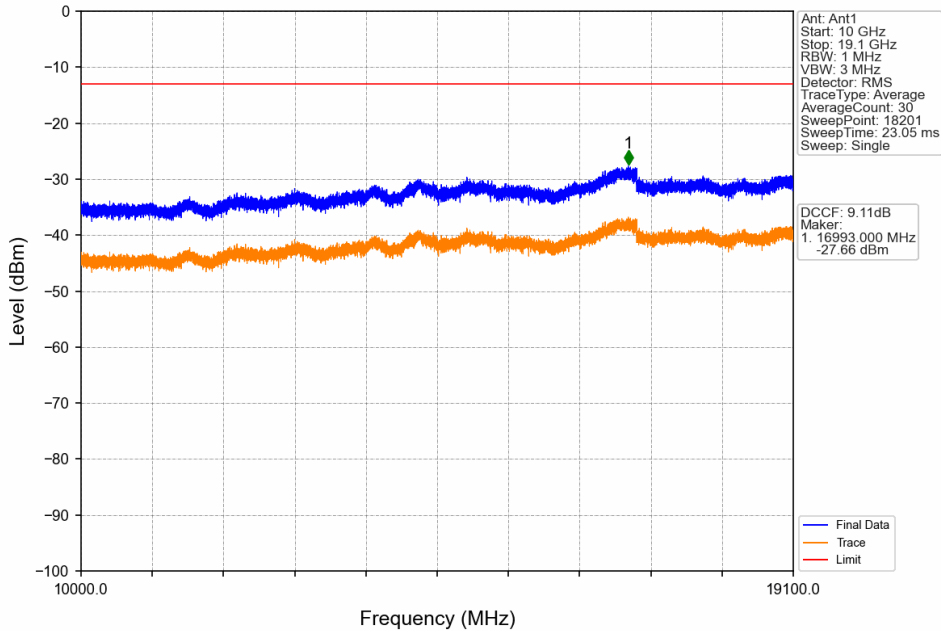


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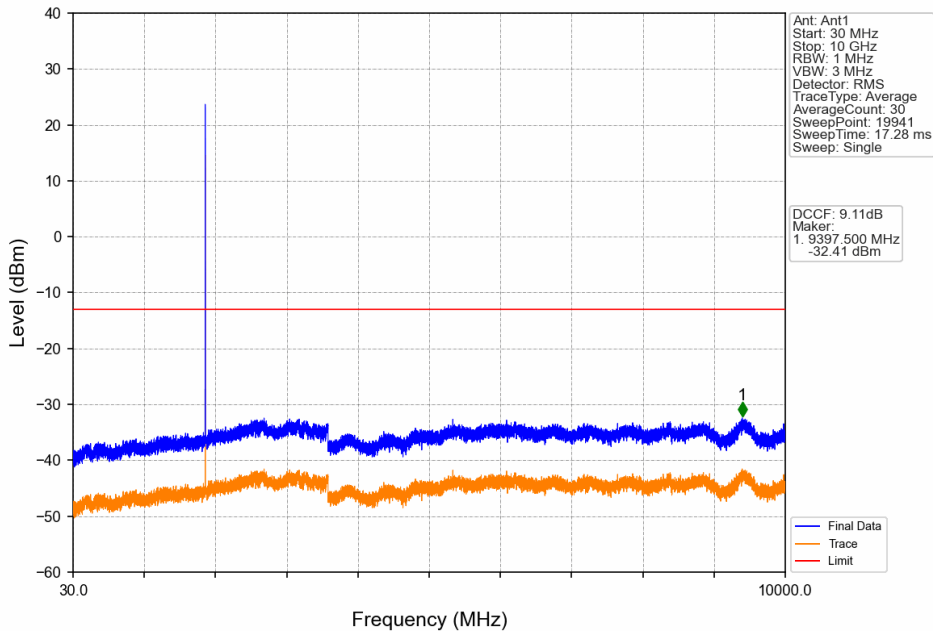
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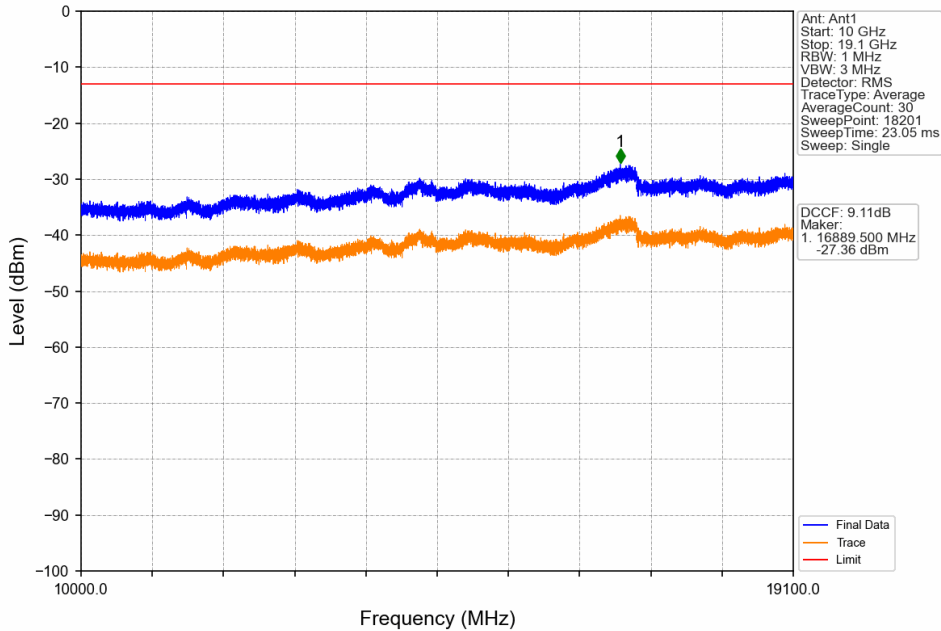
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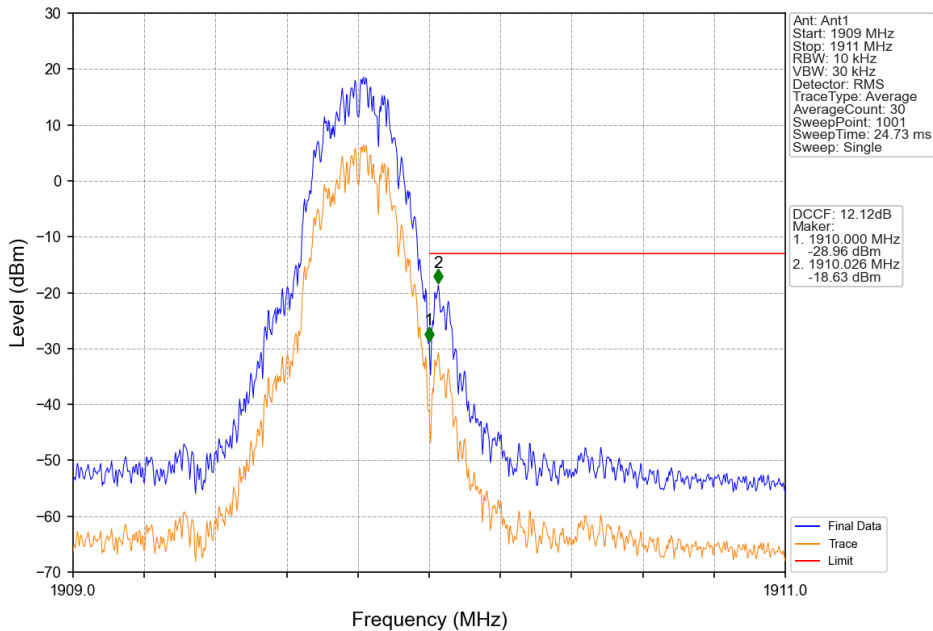
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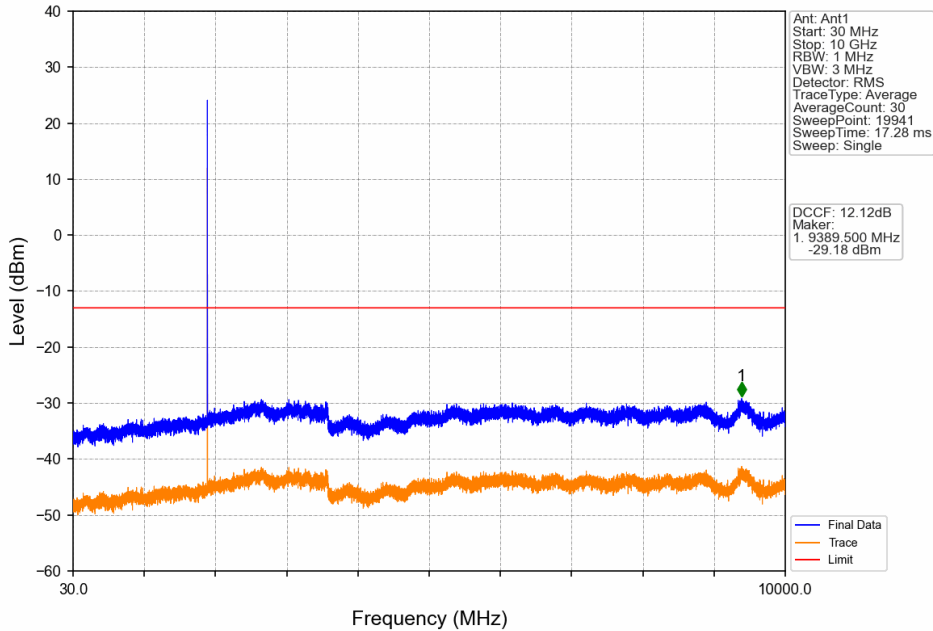
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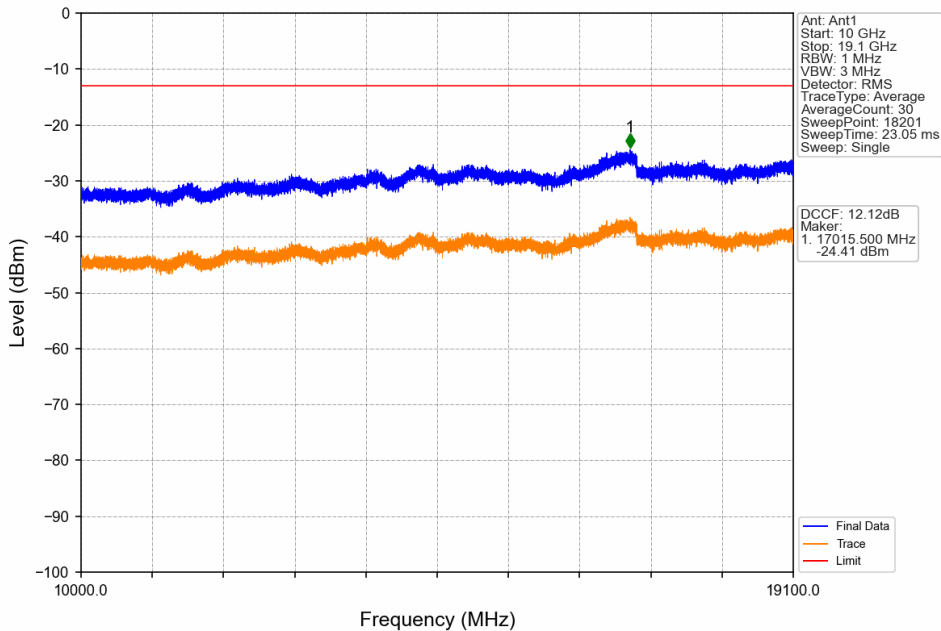
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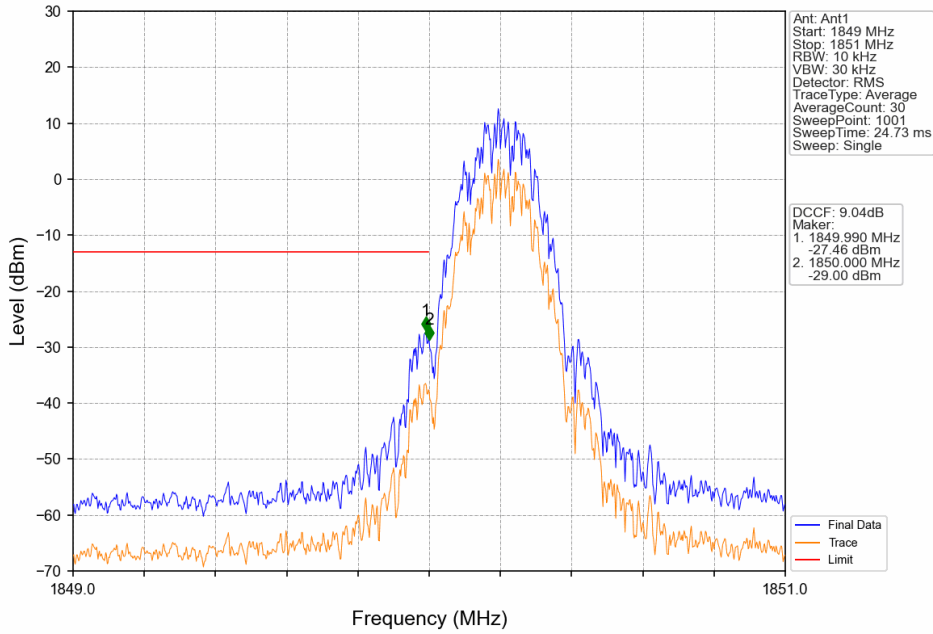
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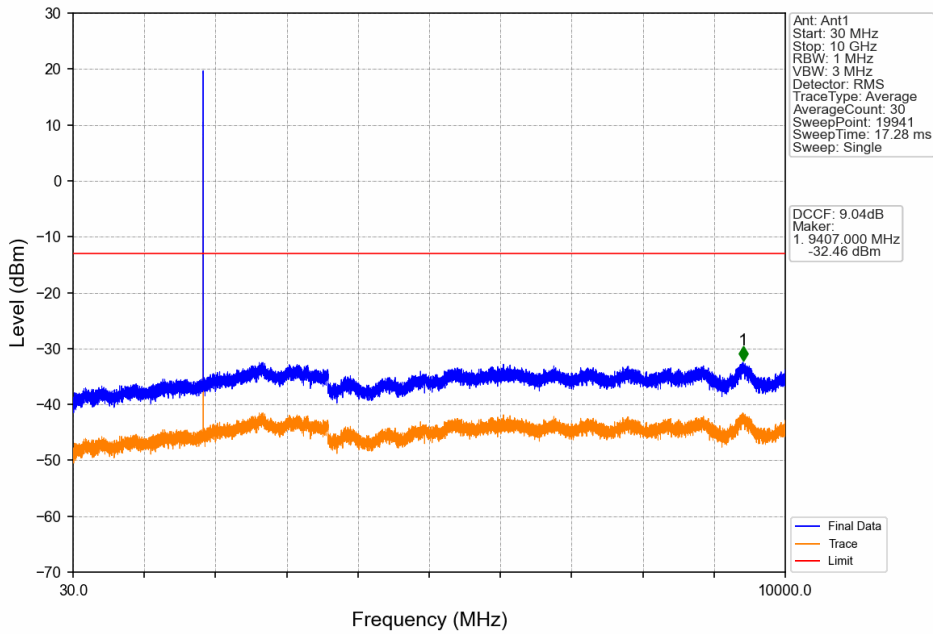
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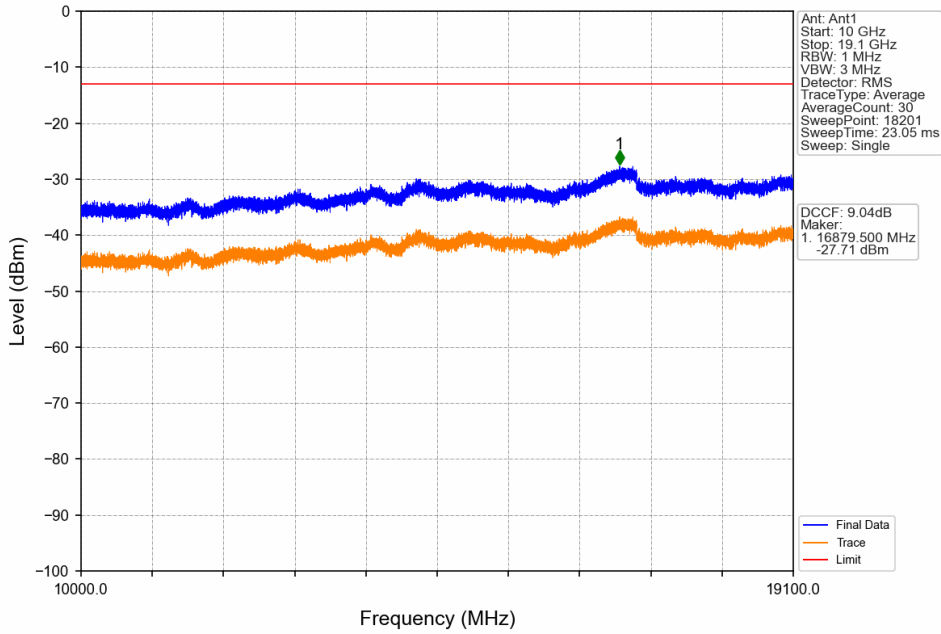
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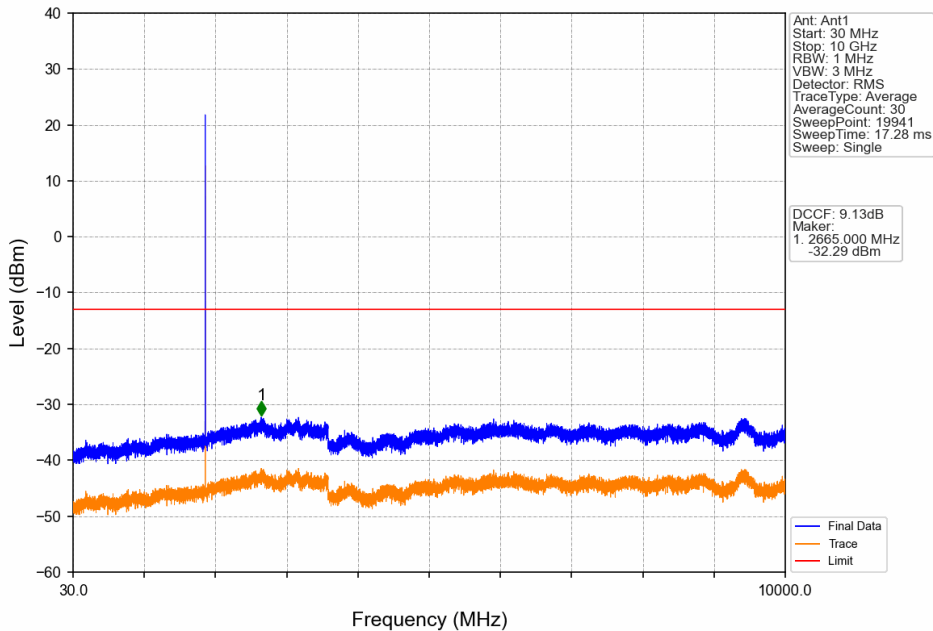
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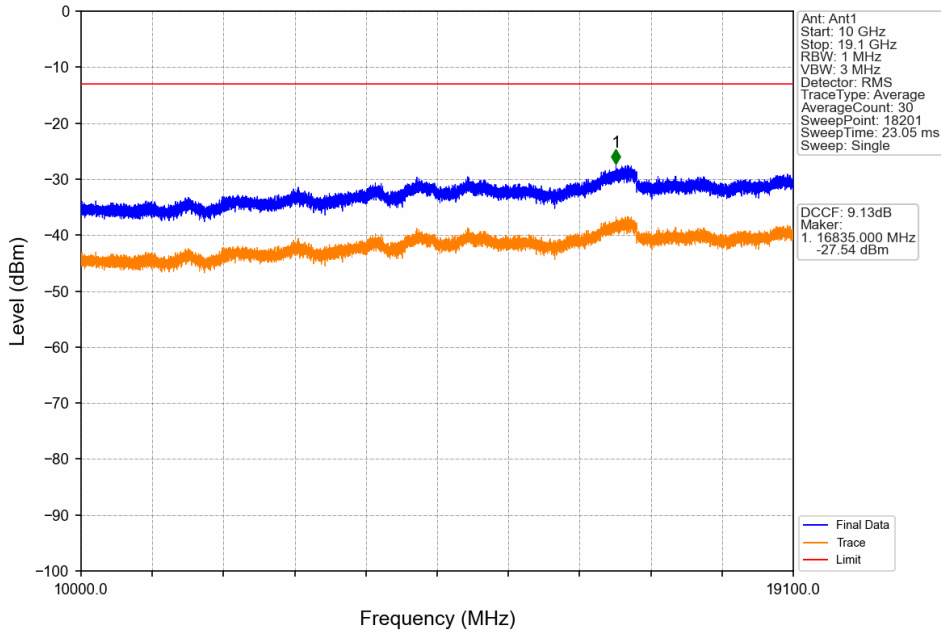
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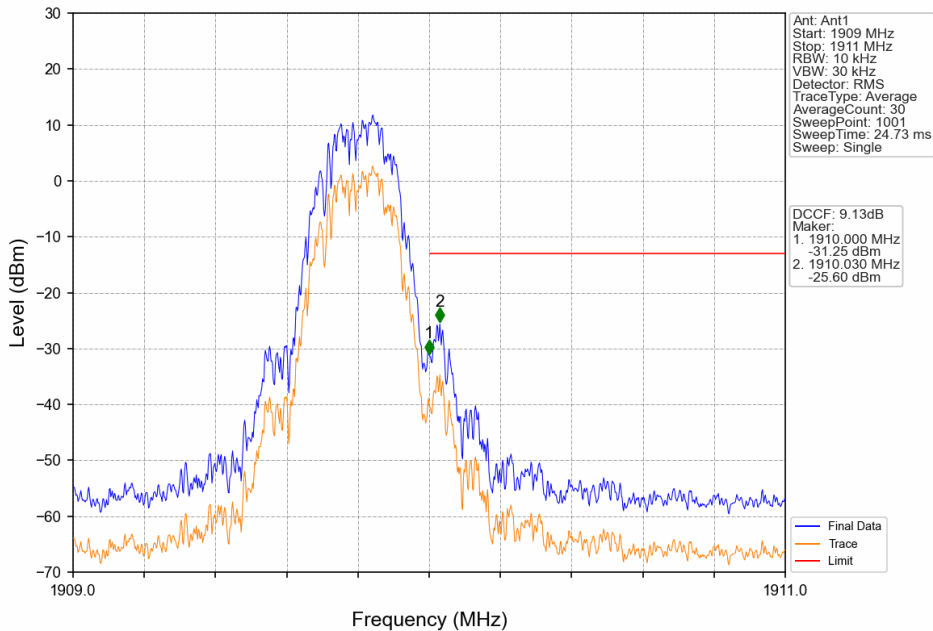
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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

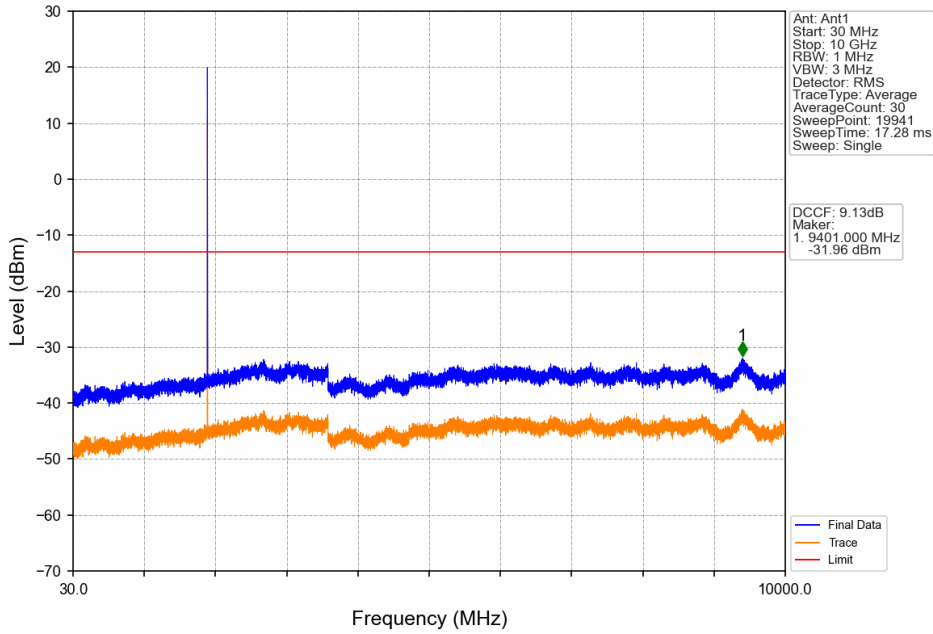


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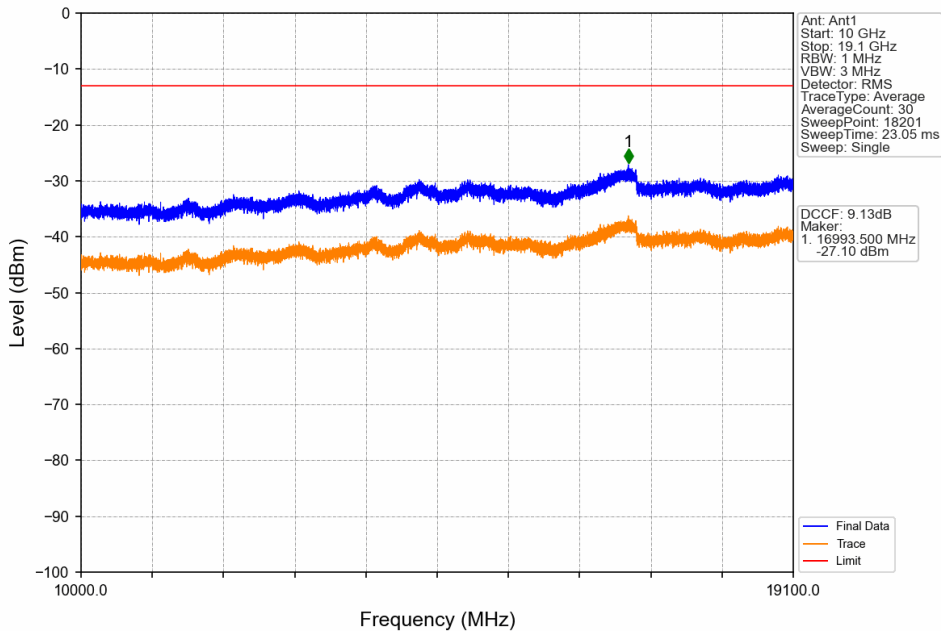
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PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

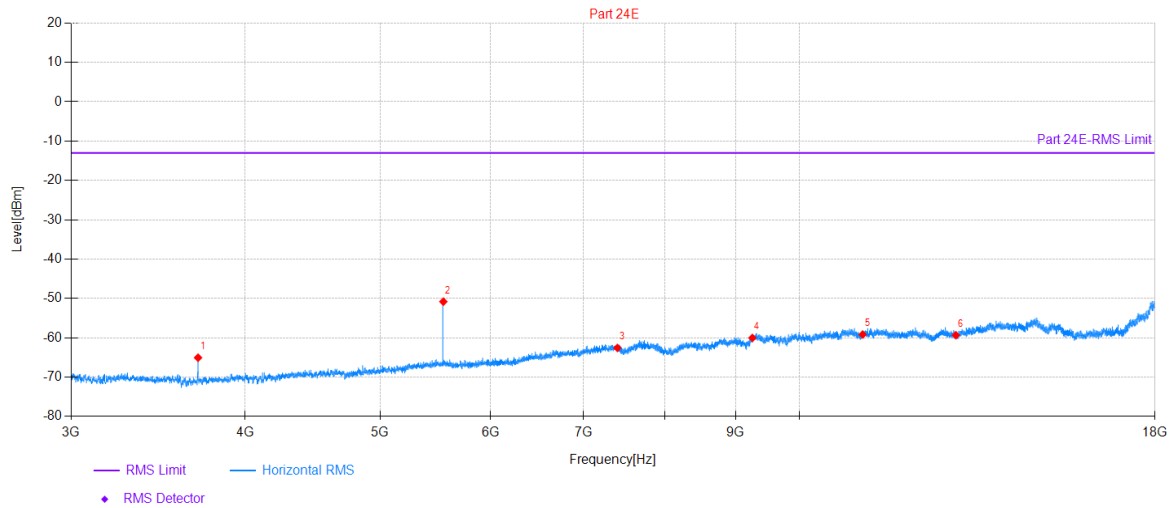


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Field Strength of Spurious Radiation

Test Band = GSM 1900_TM1
 Test Channel = Low Channel

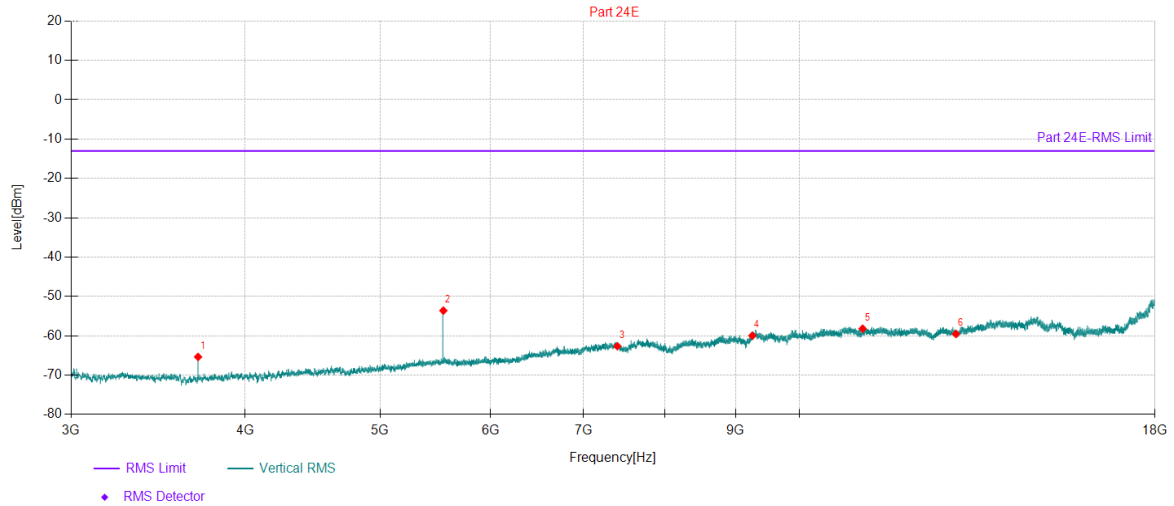


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	49.73	-48.51	28.98	-65.06	-13.00	52.06	Horizontal
2	5550.6	59.40	-47.66	32.71	-50.81	-13.00	37.81	Horizontal
3	7400.8	42.29	-46.17	36.56	-62.58	-13.00	49.58	Horizontal
4	9251	40.61	-43.20	37.83	-60.03	-13.00	47.03	Horizontal
5	11101.2	37.08	-40.36	39.38	-59.16	-13.00	46.16	Horizontal
6	12951.4	36.69	-39.41	38.63	-59.35	-13.00	46.35	Horizontal



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Test Band = GSM 1900_ TM1
 Test Channel = Low Channel

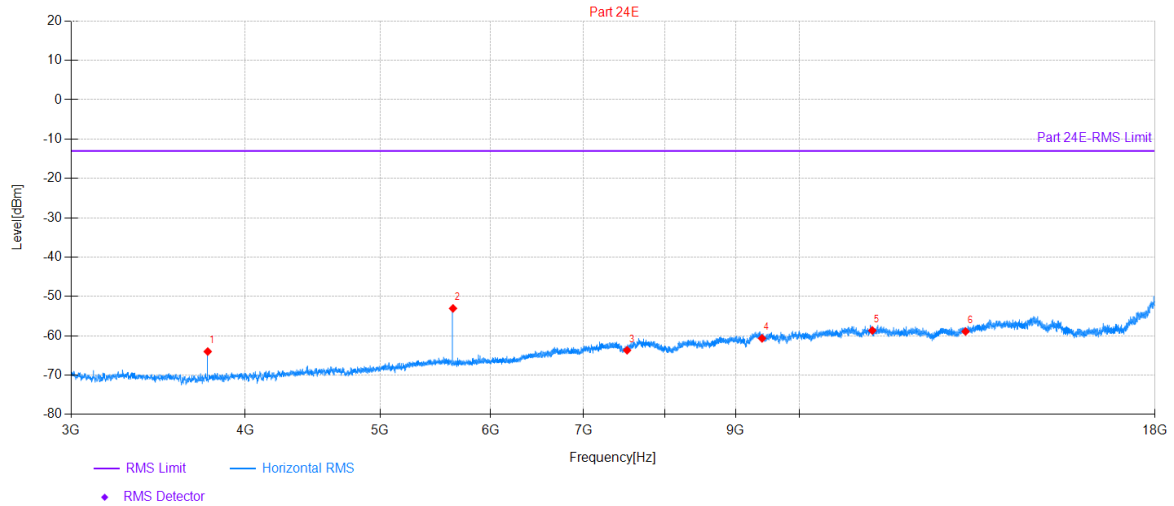


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3700.4	49.42	-48.51	28.98	-65.37	-13.00	52.37	Vertical
2	5550.6	56.61	-47.66	32.71	-53.60	-13.00	40.60	Vertical
3	7400.8	42.21	-46.17	36.56	-62.66	-13.00	49.66	Vertical
4	9251	40.67	-43.20	37.83	-59.97	-13.00	46.97	Vertical
5	11101.2	38.04	-40.36	39.38	-58.20	-13.00	45.20	Vertical
6	12951.4	36.52	-39.41	38.63	-59.52	-13.00	46.52	Vertical



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Test Band = GSM 1900_ TM1
 Test Channel = Mid Channel

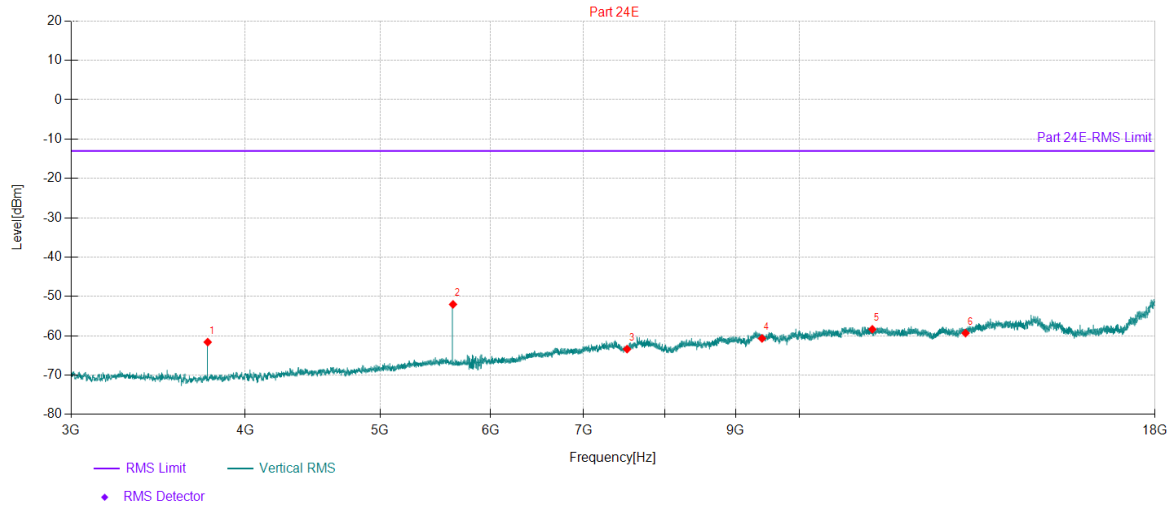


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	50.51	-48.31	29.06	-64.00	-13.00	51.00	Horizontal
2	5640	57.11	-47.62	32.73	-53.04	-13.00	40.04	Horizontal
3	7520	40.66	-45.85	36.78	-63.67	-13.00	50.67	Horizontal
4	9400	39.70	-43.05	37.96	-60.65	-13.00	47.65	Horizontal
5	11280	37.70	-40.44	39.34	-58.65	-13.00	45.65	Horizontal
6	13160	35.97	-38.58	38.97	-58.90	-13.00	45.90	Horizontal



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Test Band = GSM 1900_ TM1
 Test Channel = Mid Channel

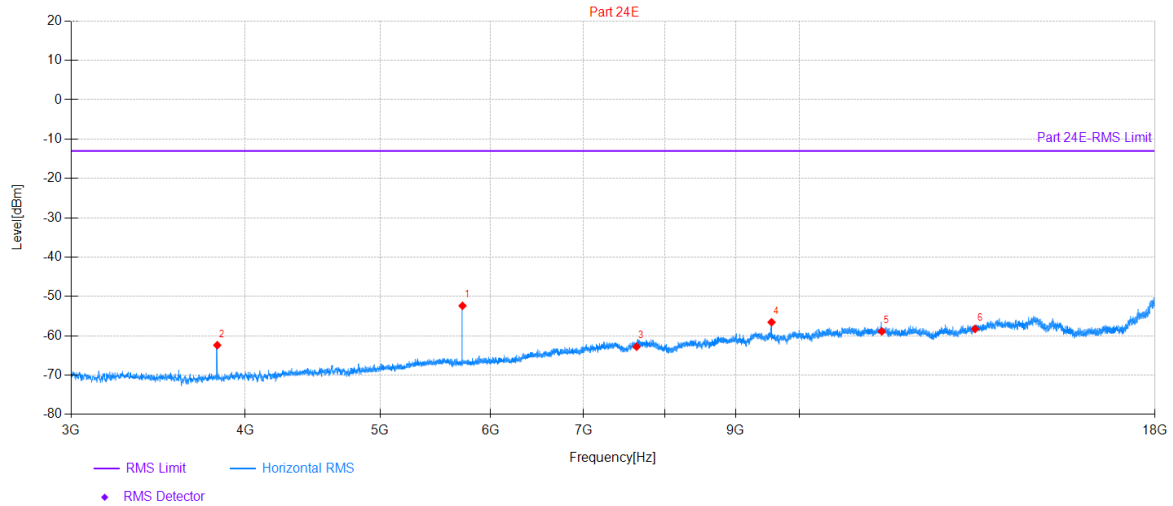


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3759.75	52.90	-48.31	29.06	-61.61	-13.00	48.61	Vertical
2	5640	58.14	-47.62	32.73	-52.01	-13.00	39.01	Vertical
3	7520	40.94	-45.85	36.78	-63.39	-13.00	50.39	Vertical
4	9400	39.68	-43.05	37.96	-60.67	-13.00	47.67	Vertical
5	11280	38.01	-40.44	39.34	-58.34	-13.00	45.34	Vertical
6	13160	35.55	-38.58	38.97	-59.32	-13.00	46.32	Vertical



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Test Band = GSM 1900_ TM1
Test Channel = High Channel

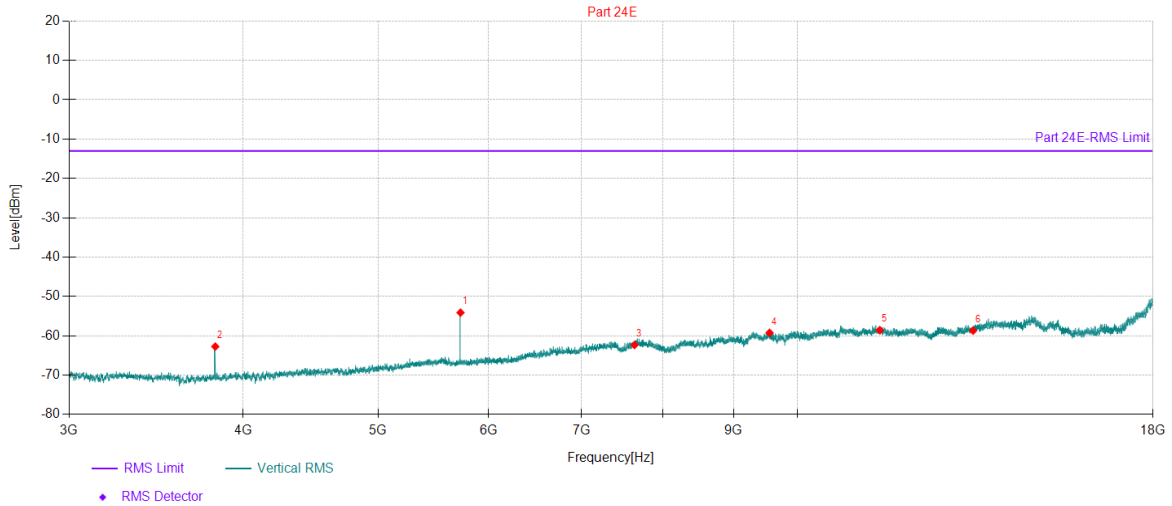


Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5729.25	57.67	-47.54	32.75	-52.38	-13.00	39.38	Horizontal
2	3819.6	51.92	-48.20	29.15	-62.39	-13.00	49.39	Horizontal
3	7639.2	40.68	-44.82	36.63	-62.77	-13.00	49.77	Horizontal
4	9549	42.92	-42.31	38.09	-56.55	-13.00	43.55	Horizontal
5	11458.8	37.14	-40.07	39.31	-58.88	-13.00	45.88	Horizontal
6	13368.6	36.71	-39.15	39.45	-58.25	-13.00	45.25	Horizontal



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Test Band = GSM 1900_ TM1
 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	55.93	-47.54	32.75	-54.12	-13.00	41.12	Vertical
2	3819.6	51.57	-48.20	29.15	-62.74	-13.00	49.74	Vertical
3	7639.2	41.12	-44.82	36.63	-62.33	-13.00	49.33	Vertical
4	9549	40.22	-42.31	38.09	-59.25	-13.00	46.25	Vertical
5	11458.8	37.46	-40.07	39.31	-58.56	-13.00	45.56	Vertical
6	13368.6	36.27	-39.15	39.45	-58.69	-13.00	45.69	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:

$AF = \text{Antenna Factor (dB/m)}$

$\text{Factor} = \text{Cable Factor (dB)} - \text{Preamplifier (dB)}$

$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$

$\text{Margin} = \text{Limit} - \text{Level}$



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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	15.788	0.0085	/	Pass	
			3.89	13.851	0.0075	/	Pass	
			4.48	9.460	0.0051	/	Pass	
		-30	3.89	12.721	0.0069	/	Pass	
		-20	3.89	16.595	0.0090	/	Pass	
		-10	3.89	20.760	0.0112	/	Pass	
		0	3.89	16.078	0.0087	/	Pass	
		10	3.89	14.012	0.0076	/	Pass	
		30	3.89	17.434	0.0094	/	Pass	
		40	3.89	20.760	0.0112	/	Pass	
		50	3.89	17.628	0.0095	/	Pass	
		1880	20	3.4	27.120	0.0144	/	Pass
	3.89			23.472	0.0125	/	Pass	
	4.48			20.889	0.0111	/	Pass	
	-30		3.89	23.407	0.0125	/	Pass	
	-20		3.89	24.731	0.0132	/	Pass	
	-10		3.89	23.084	0.0123	/	Pass	
	0		3.89	23.084	0.0123	/	Pass	
	10		3.89	24.214	0.0129	/	Pass	
	30		3.89	22.794	0.0121	/	Pass	
	40		3.89	27.314	0.0145	/	Pass	
	50		3.89	27.282	0.0145	/	Pass	
	1909.8		20	3.4	26.442	0.0138	/	Pass
		3.89		24.634	0.0129	/	Pass	
		4.48		24.021	0.0126	/	Pass	
		-30	3.89	23.375	0.0122	/	Pass	
		-20	3.89	24.796	0.0130	/	Pass	
		-10	3.89	22.310	0.0117	/	Pass	
		0	3.89	22.051	0.0115	/	Pass	
		10	3.89	22.471	0.0118	/	Pass	
		30	3.89	24.860	0.0130	/	Pass	
		40	3.89	26.830	0.0140	/	Pass	
		50	3.89	22.762	0.0119	/	Pass	
		EGPRS	1850.2	20	3.4	27.443	0.0148	/
	3.89				28.799	0.0156	/	Pass
	4.48				28.573	0.0154	/	Pass
-30	3.89			29.542	0.0160	/	Pass	
-20	3.89			31.834	0.0172	/	Pass	
-10	3.89			33.061	0.0179	/	Pass	
		0	3.89	31.124	0.0168	/	Pass	



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 Wireless Laboratory

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Rev.: 01

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		10	3.89	28.121	0.0152	/	Pass
		30	3.89	32.221	0.0174	/	Pass
		40	3.89	31.188	0.0169	/	Pass
		50	3.89	30.090	0.0163	/	Pass
	1880	20	3.4	33.674	0.0179	/	Pass
			3.89	34.062	0.0181	/	Pass
			4.48	33.513	0.0178	/	Pass
		-30	3.89	33.739	0.0179	/	Pass
		-20	3.89	33.158	0.0176	/	Pass
		-10	3.89	30.316	0.0161	/	Pass
		0	3.89	32.641	0.0174	/	Pass
		10	3.89	33.158	0.0176	/	Pass
		30	3.89	33.900	0.0180	/	Pass
		40	3.89	32.512	0.0173	/	Pass
		50	3.89	33.222	0.0177	/	Pass
	1909.8	20	3.4	33.739	0.0177	/	Pass
			3.89	31.027	0.0162	/	Pass
			4.48	31.253	0.0164	/	Pass
		-30	3.89	27.120	0.0142	/	Pass
		-20	3.89	31.188	0.0163	/	Pass
		-10	3.89	29.445	0.0154	/	Pass
		0	3.89	32.738	0.0171	/	Pass
		10	3.89	28.153	0.0147	/	Pass
		30	3.89	29.090	0.0152	/	Pass
		40	3.89	29.897	0.0157	/	Pass
50		3.89	30.478	0.0160	/	Pass	

---End of Attachment---



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